Link to zip file: <a href="http://www.ti.com/lit/zip/slac047">http://www.ti.com/lit/zip/slac047</a>

## Applicable Devices: MSP430FG437, MSP430FG438, MSP430FG439

Consult readme.txt included in the zip file for disclaimer and coding style guidelines

#### **Contents:**

- <u>Assembly Code Examples (.asm, CCS compatible)</u>
- Assembly Code Examples (.s43. IAR compatible)
- <u>C Code Examples (.c, IAR & CCS compatible)</u>

# .asm code examples – CCS

File name	Description	
fet430_1.asm	Software Toggle P5.1	
fet430_adc12_01.asm	ADC12, Sample A0, Set P5.1 if A0 > 0.5*AVcc	
fet430_adc12_02.asm	ADC12, Using the Internal Reference	
fet430_adc12_03.asm	ADC12, Sample A10 Temp, Set P5.1 if temp ++ ~2c	
fet430_adc12_04.asm	ADC12, Extend Sampling Period With SHT Bits	
fet430_adc12_05.asm	ADC12, Using an External Reference	
fet430_adc12_06.asm	ADC12, Repeated Sequence of Conversions	
fet430_adc12_07.asm	ADC12, Repeated Single Channel Conversions	
fet430_adc12_08.asm	ADC12, Using 10 External Channels of Conversion	
fet430_adc12_09.asm	ADC12, Sequence of Conversions (non-repeated)	
fet430_adc12_10.asm	ADC12, Sample A10 Temp and Convert to oC and oF	
fet430_adc12_11.asm	ADC12, Using the Internal Reference, Channel A12	
fet430_adc12_12.asm	ADC12, Using the Internal Reference, Channel A13	
fet430_adc12_13.asm	ADC12, Using the Internal Reference, Channel A14	
fet430_adc12_14.asm	ADC12, Using the Internal Reference, Channel A15	
fet430_bt_01.asm	Basic Timer, Toggle P5.1 Inside ISR, DCO SMCLK	
fet430_bt_02.asm	Basic Timer, Toggle P5.1 Inside ISR, 32kHz ACLK	
fet430_clks_01.asm	FLL+, Output MCLK, SMCLK, ACLK Using 32kHz XTAL	
fet430_clks_02.asm	FLL+, Output 32kHz Xtal + HF Xtal + Internal DCO	
fet430_dac12_01.asm	DAC12_0, Output 1.0V on DAC0	
fet430_dac12_02.asm	DAC12_1, Output 2.0V on DAC1	
fet430_dac12_03.asm	DAC12_0, Output Voltage Ramp on DAC0	
fet430_dac12_04.asm	DAC12_0, Output Voltage Ramp on VeREF+	
fet430_dma_01.asm	DMA0, Repeated Burst to-from RAM, Software Trigger	
fet430_dma_02.asm	DMA0, Repeated Block To P5OUT, CCR2IFG Trigger	
fet430_dma_03.asm	DMA0, Repeated Block UART0 9600, CCR2IFG, ACLK	
fet430_dma_04.asm	DMA0, Block Mode UART1 9600, ACLK	
fet430_dma_05.asm	DMA0, Repeated Block to DAC0 Sine Output, CCR2, DCO	
fet430_dma_06.asm	DMA0, ADC12 A10 Block Xfer to RAM, Timer_B, SMCLK	
fet430_dma_07.asm	DMA0, ADC12 A10 Block Xfer to Flash, Timer_B, SMCLK	
fet430_fll_01.asm	FLL+, Runs Internal DCO at 2.45MHz	

fet430_flt_02.asm   FLL+, Runs Internal DCO at 8MHz     fet430_fsa.sm   FLL+, RULK Configured to Operate from XT2 HF XTAL     fet430_fsa.sm   ICD, Display "10123456" on SBLCDA4 LCD     fet430_for_01.asm   LCD, Display "10123456" on SBLCDA4 LCD     fet430_for_03.asm   FLL+, ICM3 Using Basic Timer ISR, 32kHz ACLK     fet430_oa_01.asm   OA0, Comparator in General-Purpose Mode     fet430_oa_02.asm   OA0, Comparator in General-Purpose Mode     fet430_oa_03.asm   OA0, Comparator in General-Purpose Mode     fet430_oa_03.asm   OA0, Non-Inverting PGA Mode     fet430_oa_07.asm   OA0, Non-Inverting PGA Mode     fet430_oa_07.asm   OA1, Comparator in General-Purpose Mode     fet430_oa_07.asm   OA1, Comparator in General-Purpose Mode     fet430_oa_07.asm   OA1, Inverting PGA Mode     fet430_oa_10.asm   OA1, Inverting PGA Mode     fet430_oa_11.asm   OA1, Non-Inverting PGA Mode     fet430_oa_11.asm   OA1, Non-Inve			
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fet430_oa_09.asmOA1, Inverting PGA Modefet430_oa_10.asmOA1, Non-Inverting PGA Modefet430_oa_11.asmOA1, Non-Inverting PGA Modefet430_oa_11.asmOA1, Unity-Gain Buffer Modefet430_oa_13.asm3-Amp Differential Amplifier with OA0, OA1, and OA0fet430_oa_14.asm3-Amp Differential Amplifier with OA1, OA2, and OA0fet430_oa_14.asm3-Amp Differential Amplifier with OA2, OA0, and OA1fet430_spi0_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_01.asmTimer_A, Toggle P5.1, OVerflow ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B,	fet430_oa_07.asm	OA1, Comparator Mode	
fet430_oa_10.asmOA1, Non-Inverting PGA Modefet430_oa_11.asmOA1, Unity-Gain Buffer Modefet430_oa_12.asm3-Amp Differential Amplifier with OA0, OA1, and OA2fet430_oa_13.asm3-Amp Differential Amplifier with OA1, OA2, and OA0fet430_oa_14.asm3-Amp Differential Amplifier with OA2, OA0, and OA1fet430_oa_16.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_svi_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_04.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5	fet430_oa_08.asm	OA1, Comparator in General-Purpose Mode	
fet430_oa_11.asmOA1, Unity-Gain Buffer Modefet430_oa_12.asm3-Amp Differential Amplifier with OA0, OA1, and OA2fet430_oa_13.asm3-Amp Differential Amplifier with OA1, OA2, and OA0fet430_oa_14.asm3-Amp Differential Amplifier with OA2, OA0, and OA1fet430_svi_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_ta_01.asmSVS, POR @ 2.5V Vccfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_04.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up	fet430_oa_09.asm	OA1, Inverting PGA Mode	
fet430_oa_12.asm3-Amp Differential Amplifier with OA0, OA1, and OA2fet430_oa_13.asm3-Amp Differential Amplifier with OA1, OA2, and OA0fet430_oa_14.asm3-Amp Differential Amplifier with OA2, OA0, and OA1fet430_spi0_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_ta_01.asmSVS, POR @ 2.5V Vccfet430_ta_02.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, OVERflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, OVERflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, OVERflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, PWM TB1-2 Up Mode,	fet430_oa_10.asm	OA1, Non-Inverting PGA Mode	
fet430_oa_13.asm3-Amp Differential Amplifier with OA1, OA2, and OA0fet430_oa_14.asm3-Amp Differential Amplifier with OA2, OA0, and OA1fet430_spi0_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_svs_01.asmSVS, POR @ 2.5V Vccfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, OCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 23kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_0115k.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_02400.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_09600.asmUSART0, 19200 UART Echo ISR, DCO SMCLK <td>fet430_oa_11.asm</td> <td>OA1, Unity-Gain Buffer Mode</td>	fet430_oa_11.asm	OA1, Unity-Gain Buffer Mode	
fet430_oa_14.asm3-Amp Differential Amplifier with OA2, OA0, and OA1fet430_spi0_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_svs_01.asmSVS, POR @ 2.5V Vccfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, OVerflow ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode, SR, 32kHz ACLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, SR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, SR, 32kHz ACLKfet430_uto1_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, D	fet430_oa_12.asm	3-Amp Differential Amplifier with OA0, OA1, and OA2	
fet430_spi0_016x.asmUSART0, SPI Interface to HC165/164 Shift Registersfet430_svs_01.asmSVS, POR @ 2.SV Vccfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, OCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_02600.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLK	fet430_oa_13.asm	3-Amp Differential Amplifier with OA1, OA2, and OA0	
fet430_svs_01.asmSVS, POR @ 2.5V Vccfet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_11.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLK	fet430_oa_14.asm	3-Amp Differential Amplifier with OA2, OA0, and OA1	
fet430_ta_01.asmTimer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_ta_02.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_9600.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_spi0_016x.asm	USARTO, SPI Interface to HC165/164 Shift Registers	
fet430_ta_02.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_tb_04.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLK </td <td>fet430_svs_01.asm</td> <td colspan="2"></td>	fet430_svs_01.asm		
fet430_ta_03.asmTimer_A, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_ta_01.asm		
fet430_ta_04.asmTimer_A, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_05.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_ta_02.asm	Timer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLK	
fet430_ta_05.asmTimer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, ISR, 32kHz ACLKfet430_uart01_0115k.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_ta_03.asm	Timer_A, Toggle P5.1, Overflow ISR, DCO SMCLK	
fet430_ta_16.asmTimer_A, PWM TA1-2 Up Mode, DCO SMCLKfet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, DCO SMCLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, DCO SMCLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_0115k.asmUSARTO, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSARTO, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSARTO, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSARTO, 19200 UART Echo ISR, DCO SMCLK	fet430_ta_04.asm	Timer_A, Toggle P5.1, Overflow ISR, 32kHz ACLK	
fet430_ta_17.asmTimer_A, PWM TA1-2 Up Mode, 32kHz ACLKfet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_ta_05.asm	Timer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLK	
fet430_tb_01.asmTimer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLKfet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, Toggle P5.1, CCR0 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLK	fet430_ta_16.asm	Timer_A, PWM TA1-2 Up Mode, DCO SMCLK	
fet430_tb_02.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLKfet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode, DCO SMCLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_ta_17.asm	Timer_A, PWM TA1-2 Up Mode, 32kHz ACLK	
fet430_tb_03.asmTimer_B, Toggle P5.1, Overflow ISR, DCO SMCLKfet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLK	fet430_tb_01.asm	Timer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLK	
fet430_tb_04.asmTimer_B, Toggle P5.1, Overflow ISR, 32kHz ACLKfet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_109600.asmUSART0, 19200 UART Echo ISR, DCO SMCLK	fet430_tb_02.asm	Timer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLK	
fet430_tb_05.asmTimer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLKfet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_tb_03.asm	Timer_B, Toggle P5.1, Overflow ISR, DCO SMCLK	
fet430_tb_10.asmTimer_B, PWM TB1-2 Up Mode, DCO SMCLKfet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_tb_04.asm	Timer_B, Toggle P5.1, Overflow ISR, 32kHz ACLK	
fet430_tb_11.asmTimer_B, PWM TB1-2 Up Mode, 32kHz ACLKfet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_tb_05.asm	Timer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLK	
fet430_uart01_0115k.asmUSART0, 115200 UART Echo ISR, DCO SMCLKfet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_tb_10.asm	Timer_B, PWM TB1-2 Up Mode, DCO SMCLK	
fet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_tb_11.asm	Timer_B, PWM TB1-2 Up Mode, 32kHz ACLK	
fet430_uart01_02400.asmUSART0, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLKfet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_uart01_0115k.asm	USARTO, 115200 UART Echo ISR, DCO SMCLK	
fet430_uart01_09600.asmUSART0, 9600 UART Echo ISR, DCO SMCLKfet430_uart01_19200.asmUSART0, 19200 UART Echo ISR, DCO SMCLKfet430_uart02_19200.asmUSART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_uart01_02400.asm		
fet430_uart02_19200.asm USART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_uart01_09600.asm		
fet430_uart02_19200.asm USART0, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK	fet430_uart01_19200.asm		
fet430_wdt_02.asm WDT, Toggle P5.1, Interval Overflow ISR, 32kHz ACLK			

# .s43 code examples – IAR

.s43 code examples – IAR		
File name	Description	
fet430_1.s43	Software Toggle P5.1	
fet430_adc12_01.s43	ADC12, Sample A0, Set P5.1 if A0 > 0.5*AVcc	
fet430_adc12_02.s43	ADC12, Using the Internal Reference	
fet430_adc12_03.s43	ADC12, Sample A10 Temp, Set P5.1 if temp ++ ~2c	
fet430_adc12_04.s43	ADC12, Extend Sampling Period With SHT Bits	
fet430_adc12_05.s43	ADC12, Using an External Reference	
fet430_adc12_06.s43	ADC12, Repeated Sequence of Conversions	
fet430_adc12_07.s43	ADC12, Repeated Single Channel Conversions	
fet430_adc12_08.s43	ADC12, Using 10 External Channels of Conversion	
fet430_adc12_09.s43	ADC12, Sequence of Conversions (non-repeated)	
fet430_adc12_10.s43	ADC12, Sample A10 Temp and Convert to oC and oF	
fet430_adc12_11.s43	ADC12, Using the Internal Reference, Channel A12	
fet430_adc12_12.s43	ADC12, Using the Internal Reference, Channel A13	
fet430_adc12_13.s43	ADC12, Using the Internal Reference, Channel A14	
fet430_adc12_14.s43	ADC12, Using the Internal Reference, Channel A15	
fet430_bt_01.s43	Basic Timer, Toggle P5.1 Inside ISR, DCO SMCLK	
fet430_bt_02.s43	Basic Timer, Toggle P5.1 Inside ISR, 32kHz ACLK	
fet430_clks_01.s43	FLL+, Output MCLK, SMCLK, ACLK Using 32kHz XTAL	
fet430_clks_02.s43	FLL+, Output 32kHz Xtal + HF Xtal + Internal DCO	
fet430_dac12_01.s43	DAC12_0, Output 1.0V on DAC0	
fet430_dac12_02.s43	DAC12_1, Output 2.0V on DAC1	
fet430_dac12_03.s43	DAC12_0, Output Voltage Ramp on DAC0	
fet430_dac12_04.s43	DAC12_0, Output Voltage Ramp on VeREF+	
fet430_dma_01.s43	DMA0, Repeated Burst to-from RAM, Software Trigger	
fet430_dma_02.s43	DMA0, Repeated Block To P5OUT, CCR2IFG Trigger	
fet430_dma_03.s43	DMA0, Repeated Block UART0 9600, CCR2IFG, ACLK	
fet430_dma_04.s43	DMA0, Block Mode UART1 9600, ACLK	
fet430_dma_05.s43	DMA0, Repeated Block to DAC0 Sine Output, CCR2, DCO	
fet430_dma_06.s43	DMA0, ADC12 A10 Block Xfer to RAM, Timer_B, SMCLK	
fet430_dma_07.s43	DMA0, ADC12 A10 Block Xfer to Flash, Timer_B, SMCLK	
fet430_fll_01.s43	FLL+, Runs Internal DCO at 2.45MHz	
fet430_fll_02.s43	FLL+, Runs Internal DCO at 8MHz	
fet430_hfxt2.s43	FLL+, MCLK Configured to Operate from XT2 HF XTAL	
fet430_isp.s43	Flash In-System Program Memory	
fet430_lcd_01.s43	LCD, Display "0123456" on SBLCDA4 LCD	
fet430_lcd_02.s43	LCD, Display "430" on Varitronix VI-322 LCD	
fet430_lpm3.s43	FLL+, LPM3 Using Basic Timer ISR, 32kHz ACLK	
fet430_oa_01.s43	OA0, Comparator Mode	
fet430_oa_02.s43	OA0, Comparator in General-Purpose Mode	

fet430_oa_03.s43	OA0, General-Purpose Mode		
	OAO, Inverting PGA Mode		
fet430_oa_05.s43	OA0, Non-Inverting PGA Mode		
	OA0, Unity-Gain Buffer Mode		
	OA1, Comparator Mode		
fet430_oa_08.s43	OA1, Comparator in General-Purpose Mode		
fet430_oa_09.s43	OA1, Inverting PGA Mode		
fet430_oa_10.s43	OA1, Non-Inverting PGA Mode		
fet430_oa_11.s43	OA1, Unity-Gain Buffer Mode		
fet430_oa_12.s43	3-Amp Differential Amplifier with OA0, OA1, and OA2		
fet430_oa_13.s43	3-Amp Differential Amplifier with OA1, OA2, and OA0		
fet430_oa_14.s43	3-Amp Differential Amplifier with OA2, OA0, and OA1		
fet430_spi0_016x.s43	USARTO, SPI Interface to HC165/164 Shift Registers		
fet430_svs_01.s43	SVS, POR @ 2.5V Vcc		
fet430_ta_01.s43	Timer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLK		
fet430_ta_02.s43	Timer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLK		
fet430_ta_03.s43	Timer_A, Toggle P5.1, Overflow ISR, DCO SMCLK		
fet430_ta_04.s43	Timer_A, Toggle P5.1, Overflow ISR, 32kHz ACLK		
fet430_ta_05.s43	Timer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLK		
fet430_ta_16.s43	Timer_A, PWM TA1-2 Up Mode, DCO SMCLK		
fet430_ta_17.s43	Timer_A, PWM TA1-2 Up Mode, 32kHz ACLK		
fet430_tb_01.s43	Timer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLK		
fet430_tb_02.s43	Timer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLK		
fet430_tb_03.s43	Timer_B, Toggle P5.1, Overflow ISR, DCO SMCLK		
fet430_tb_04.s43	Timer_B, Toggle P5.1, Overflow ISR, 32kHz ACLK		
fet430_tb_05.s43	Timer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLK		
fet430_tb_10.s43	Timer_B, PWM TB1-2 Up Mode, DCO SMCLK		
fet430_tb_11.s43	Timer_B, PWM TB1-2 Up Mode, 32kHz ACLK		
fet430_uart01_0115k.s43	USARTO, 115200 UART Echo ISR, DCO SMCLK		
fet430_uart01_02400.s43	USARTO, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLK		
fet430_uart01_09600.s43	USARTO, 9600 UART Echo ISR, DCO SMCLK		
fet430_uart01_19200.s43	USARTO, 19200 UART Echo ISR, DCO SMCLK		
fet430_uart02_19200.s43	USARTO, 19200 UART Ultra-low Pwr Echo ISR, DCO SMCLK		
fet430_wdt_01.s43	WDT, Toggle P5.1, Interval Overflow ISR, DCO SMCLK		
fet430_wdt_02.s43	WDT, Toggle P5.1, Interval Overflow ISR, 32kHz ACLK		

C code examples – IAR & CCS		
File name	Description	
fet430_1.c	Software Toggle P5.1	
fet430_adc12_01.c	ADC12, Sample A0, Set P5.1 if A0 > 0.5*AVcc	
fet430_adc12_02.c	ADC12, Single Conversion on Single Channel	
fet430_adc12_03.c	ADC12, Using an External Reference	
fet430_adc12_04.c	ADC12, Extend Sampling period with SHT Bits	

fet430_adc12_05.c	ADC12, Using the Internal Reference		
fet430 adc12 06.c	ADC12, Using the Internal Reference ADC12, Repeated Sequence of Conversions		
fet430_adc12_07.c			
fet430_adc12_08.c	ADC12, Repeated Single Channel Conversions		
fet430_adc12_09.c	ADC12, Using 10 External Channels for Conversion ADC12, Sequence of Conversions (non-repeated)		
fet430_adc12_10.c	ADC12, Using the Temperature Sensor		
fet430 adc12 11.c	ADC12, Single Conversion on Channel A12		
fet430_adc12_12.c	ADC12, Single Conversion on Channel A13		
fet430_adc12_13.c	ADC12, Single Conversion on Channel A14		
fet430_adc12_14.c	ADC12, Single Conversion on Channel A15		
fet430_bt_01.c	Basic Timer, Toggle P5.1 Inside ISR, DCO SMCLK		
fet430_bt_02.c	Basic Timer, Toggle P5.1 Inside ISR, 32kHz ACLK		
fet430_clks_02.c	FLL+, Output 32kHz XTAL + HF XTAL + Internal DCO		
fet430_dac12_01.c	DAC12_0, Output 1V on DAC0		
fet430_dac12_02.c	DAC12_1, Output 2V on DAC1		
fet430_dac12_03.c	DAC12_0, Output Voltage Ramp on DAC0		
fet430_dac12_04.c	DAC12_0, Output Voltage Ramp on VeREF+		
fet430_dma_01.c	DMA0, Repeated Burst to-from RAM, Software Trigger		
fet430_dma_02.c	DMA0, Repeated Block To P5OUT, TACCR2, DCO		
fet430_dma_03.c	DMA0, Repeat Single to UART 19200, TACCR2, DCO		
fet430_dma_04.c	DMA0, Repeated Block to DAC0 Sine Output, TACCR1, DCO		
fet430_dma_05.c	DMA0, Rpt'd Blk to DAC1 8-bit Sine Output, TBCCR2, DCO		
fet430_dma_06.c	DMA0, ADC12 A10 Block Xfer to RAM, Timer_B, SMCLK		
fet430_dma_07.c	DMA0, ADC12 A10 Block Xfer to Flash, Timer_B, SMCLK		
fet430_fll_01.c	FLL+, Runs Internal DCO at 2.45MHz		
fet430_fll_02.c	FLL+, Runs Internal DCO at 8MHz		
fet430_lcd_01.c	LCD, Display "0123456" on SBLCDA4 LCD		
fet430_lcd_02.c	LCD, Display "430" on Varitronix VI-322 LCD		
fet430_lpm3.c	FLL+, LPM3 Using Basic Timer ISR, 32kHz ACLK		
fet430_oa_01.c	OA0, Comparator Mode		
fet430_oa_02.c	OA0, Comparator in General-Purpose Mode		
	OA0, General-Purpose Mode		
fet430 oa 04.c	OA0, Inverting PGA Mode		
 fet430_oa_05.c	OA0, Non-Inverting PGA Mode		
fet430_oa_06.c	OA0, Unity-Gain Buffer Mode		
fet430_oa_07.c	OA1, Comparator Mode		
fet430_oa_08.c	OA1, Comparator in General-Purpose Mode		
fet430_oa_09.c	OA1, Inverting PGA Mode		
 fet430_oa_10.c	OA1, Non-Inverting PGA Mode		
 fet430_oa_11.c	OA1, Unity-Gain Buffer Mode		
 fet430_spi0_016x.c	USARTO, SPI Interface to HC165/164 Shift Registers		
fet430_ta_01.c	Timer_A, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLK		
fet430_ta_02.c	Timer_A, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLK		
	Timer_A, Toggle P5.1, Overflow ISR, DCO SMCLK		
fet430_ta_03.c			

fet430_ta_05.c	Timer_A, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLK		
fet430_ta_16.c	Timer_A, PWM TA1-2 Up Mode, DCO SMCLK		
fet430_ta_17.c	Timer_A, PWM TA1-2 Up Mode, 32kHz ACLK		
fet430_tb_01.c	Timer_B, Toggle P5.1, CCR0 Cont. Mode ISR, DCO SMCLK		
fet430_tb_02.c	Timer_B, Toggle P5.1, CCR0 Up Mode ISR, DCO SMCLK		
fet430_tb_03.c	Timer_B, Toggle P5.1, Overflow ISR, DCO SMCLK		
fet430_tb_04.c	Timer_B, Toggle P5.1, Overflow ISR, 32kHz ACLK		
fet430_tb_05.c	Timer_B, Toggle P5.1, CCR0 Up Mode ISR, 32kHz ACLK		
fet430_tb_10.c	Timer_B, PWM TB1-2 Up Mode, DCO SMCLK		
fet430_tb_11.c	Timer_B, PWM TB1-2 Up Mode, 32kHz ACLK		
fet430_uart01_0115k.c	USARTO, 115200 UART Echo ISR, DCO SMCLK		
fet430_uart01_02400.c	USARTO, 2400 UART Ultra-low Pwr Echo ISR, 32kHz ACLK		
fet430_uart01_09600.c	USARTO, 9600 UART Echo ISR, DCO SMCLK		
fet430_uart01_19200.c	USARTO, 19200 UART Echo ISR, DCO SMCLK		
fet430_uart02_19200.c	USARTO, 19200 UART Ultra-low Pwr Echo ISR, 32kHz ACLK		
fet430_wdt_01.c	WDT, Toggle P5.1, Interval Overflow ISR, DCO SMCLK		
fet430_wdt_02.c	WDT, Toggle P5.1, Interval Overflow ISR, 32kHz ACLK		

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