Screenshot 1

workspace_v8 - 2833x_RFFT_ADC_RT/source/Main.c - Code Composer Studio

File   Edit   View   Project   Tools   Run   Scripts   Window   Help

Quick Access

Debug

28335-ControloCard-NewTargetConfiguration.ccxml [Code Composer Studio - Device Debugging]
- Texas Instruments XDS100v2 USB Debug Probe_0/C28xx (Suspended)
  - main() at Main.c:196 0x0086C2
  - _args_main() at args.main.c:81 0x0088D4
  - c_int00() at boot28.asm:261 0x008A33 (the entry point was reached)

Variables / Expressions / Registers

Expression	Type	Value	Address
rfft	struct <unnamed>	{InBuf=0xAA11908B {???},Out...	0x0000C00E@Data
rfft_adc	struct <unnamed>	{InBuf=0x0000C040 {4095},Tail...	0x0000C00A@Data
freq	float	9000.0	0x0000040E@Data
FFTReal_Magnitude	float[257]	[305.642029,0.0998369753,0....	0x0000C240@Data
[0 ... 99]			

Main.c   0x3ff9ce   C:\ti\controlSUITE\libs\dsp\FPU\v120\examples_ccsv4\2833x_RFFT_ADC_RT\Example_RFFT_ADC_RT_SCREENSHOT-...   Lab.h

```
193
194         FFTStartFlag = 0;              //Start collecting the next frame of data
195     }
196     asm(" NOP");
197   }
198 } //end of main()
199
200 interrupt void  adc_isr(void)
201 {
202     static Uint16 *AdcBufPtr = AdcBuf;           // Pointer to ADC data buffer
203     static volatile Uint16 SDT024 count    0.    // Counter for pic topple
```

Disassembly / Memory Browser

Enter location he

```
          C$L9:
0086c2:   7700        NOP
173         while(1)
0086c3:   6FAF        SB          C$L5, UNC
          $../RFFT_adc_f32u.asm:128:176$(), RFFT_
0086c4:   FE02        ADDB        SP, #2
0086c5:   A842        MOVL        *-SP[2], XAR
0086c6:   764086CC    LCR         $../RFFT_adc
0086c8:   76408484    LCR         $../RFFT_adc
```

Console

No consoles to display at this time.

Target Configurations   Search   Single Time -1

```
3.600x10²
3.000x10²
2.400x10²
1.800x10²
1.200x10²
6.000x10¹
0.000
      771   +25   +50   +75   +100  +125  +150  +175  +200  +225  +250
                                    sample
```

Screenshot 2

workspace_v8 - 2833x_RFFT_ADC_RT/source/Main.c - Code Composer Studio

File   Edit   View   Project   Tools   Run   Scripts   Window   Help

Quick Access

Debug

28335-ControloCard-NewTargetConfiguration.ccxml [Code Composer Studio - Device Debugging]
- Texas Instruments XDS100v2 USB Debug Probe_0/C28xx (Suspended)
  - main() at Main.c:175 0x008672
  - _args_main() at args.main.c:81 0x0088D4
  - c_int00() at boot28.asm:261 0x008A33 (the entry point was reached)

Variables / Registers

Name	Type	Value	Location
freq	float	1031.25	0x0000040E@Data
i	unsigned int	257	0x0000040D@Data
j	unsigned int	11	0x0000040C@Data

Main.c   data_input.h   main.c   coeffs.h   0x3ff9ce

```
173     while(1)                   // endless loop - wait for an interrupt
174     {
175         if(FFTStartFlag)       // If one frame data ready, then do FFT
176         {
177             RFFT_adc_f32u(&rfft_adc);   // This version of FFT doesn't need buffer alignment
178             RFFT_f32_mag(&rfft);        // Calculate spectrum amplitude
179
180             j = 1;
```

Disassembly / Memory Browser

Enter location he

```
          C$L5:
008672:   761F0300    MOVW        DP, #0x300
008674:   9202        MOV         AL, @0x2
008675:   614D        SB          C$L9, EQ
177           RFFT_adc_f32u(&rfft_adc);
008676:   8F00C00A    MOVL        XAR4, #0x00c
008678:   FF69        SPM         #0
```

Console

No consoles to display at this time.

Target Configurations   Search

type filter text

- Projects
- User Defined

Click the New button to create a new target configuration file. Click here to hide this message.

Writable   Smart Insert   175 : 1

Screenshot 1:

workspace_v8 - 2833x_RFFT_ADC_RT/source/Main.c - Code Composer Studio

File Edit View Project Tools Run Scripts Window Help

Quick Access

Debug

- 28335-ControCard-NewTargetConfiguration.ccxml [Code Composer Studio - Device Debugging]
  - Texas Instruments XDS100v2 USB Debug Probe_0/C28xx (Suspended)
    - main() at Main.c:196 0x0086C2
    - _args_main() at args_main.c:81 0x0088D4
    - c_int00() at boot28.asm:261 0x008A33 (the entry point was reached)

Variables | Registers

Name	Type	Value	Location
freq	float	1968.75	0x0000040E@Data
i	unsigned int	257	0x0000040D@Data
j	unsigned int	21	0x0000040C@Data

Main.c | data_input.h | main.c | coeffs.h | 0x3ff9ce

```
194        FFTStartFlag = 0;              //Start collecting the next frame of data
195    }
196    asm(" NOP");
197    }
198 } //end of main()
199
200 interrupt void  adc_isr(void)
201 {
```

Disassembly | Memory Browser

Enter location he

```
                    C$L9:
 0086c2:  7700        NOP
 173          while(1)
 0086c3:  6FAF        SB          C$L5, UNC
 $../RFFT_adc_f32u.asm:128:176$(), RFFT_
 0086c4:  FE02        ADDB        SP, #2
 0086c5:  A842        MOVL        *-SP[2], XAR
```

Console

No consoles to display at this time.

Target Configurations | Search

type filter text

- Projects
- User Defined

Click the New button to create a new target configuration file. Click here to hide this message.

Writable   Smart Insert   196 : 1

Screenshot 2:

workspace_v8 - 2833x_RFFT_ADC_RT/source/Main.c - Code Composer Studio

File Edit View Project Tools Run Scripts Window Help

Quick Access

Debug

- 28335-ControCard-NewTargetConfiguration.ccxml [Code Composer Studio - Device Debugging]
  - Texas Instruments XDS100v2 USB Debug Probe_0/C28xx (Suspended)
    - main() at Main.c:175 0x008672
    - _args_main() at args_main.c:81 0x0088D4
    - c_int00() at boot28.asm:261 0x008A33 (the entry point was reached)

Variables | Registers

Name	Type	Value	Location
freq	float	3000.0	0x0000040E@Data
i	unsigned int	257	0x0000040D@Data
j	unsigned int	32	0x0000040C@Data

Main.c | data_input.h | main.c | coeffs.h | 0x3ff9ce

```
173    while(1)
174    {
175        if(FFTStartFlag)              // If one frame data ready, then do FFT
176        {
177            RFFT_adc_f32u(&rfft_adc);  // This version of FFT doesn't need buffer alignment
178            RFFT_f32_mag(&rfft);       // Calculate spectrum amplitude
179
180            j = 1;
```

Disassembly | Memory Browser

Enter location he

```
                     C$L5:
 008672:  761F0300    MOVW        DP, #0x300
 008674:  9202        MOV         AL, @0x2
 008675:  614D        SB          C$L9, EQ
 177              RFFT_adc_f32u(&rfft_adc);
 008676:  8F00C00A    MOVL        XAR4, #0x00c
 008678:  FF69        SPM         #0
```

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Target Configurations | Search

type filter text

- Projects
- User Defined

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Writable   Smart Insert   175 : 1