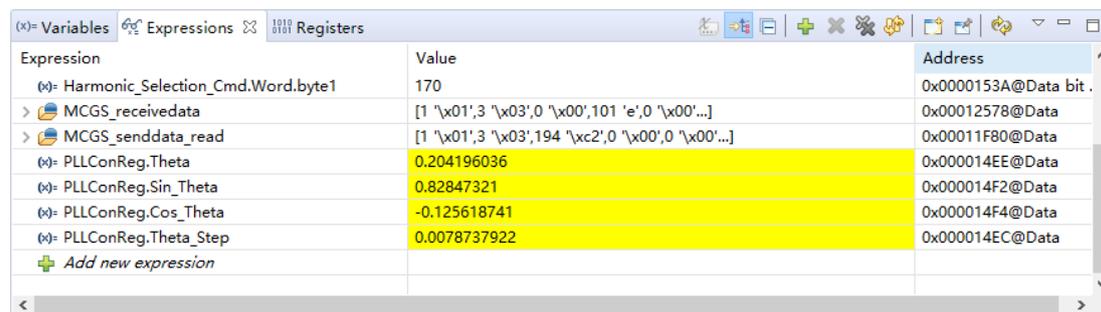


28377D 中 CLA 三角函数计算问题:

在线调试下 (连着仿真器运行): CLAsin, CLAcos 的三角运算正常。



Expression	Value	Address
(x)- Harmonic_Selection_Cmd.Word.byte1	170	0x0000153A@Data bit .
> MCGS_receivedata	[1 '\x01',3 '\x03',0 '\x00',101 'e',0 '\x00'...]	0x00012578@Data
> MCGS_senddata_read	[1 '\x01',3 '\x03',194 '\xc2',0 '\x00',0 '\x00'...]	0x00011F80@Data
(x)- PLLConReg.Theta	0.204196036	0x000014EE@Data
(x)- PLLConReg.Sin_Theta	0.82847321	0x000014F2@Data
(x)- PLLConReg.Cos_Theta	-0.125618741	0x000014F4@Data
(x)- PLLConReg.Theta_Step	0.0078737922	0x000014EC@Data
+ Add new expression		

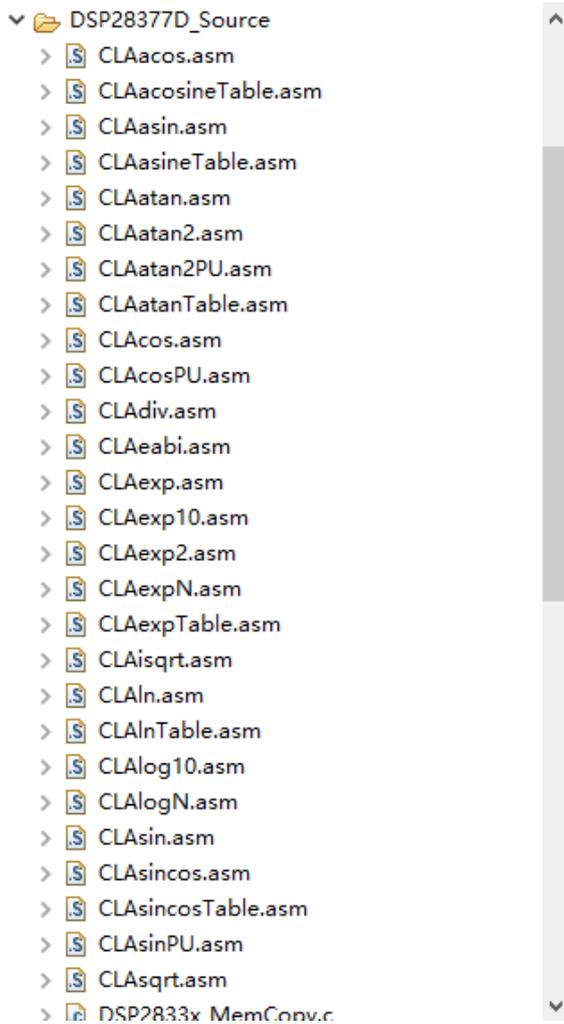
程序烧到 FLASH 中脱开仿真器运行时: 三角函数 CLAsin, CLAcos 运算结果一直是 0。但是 CLAdiv 和 CLAsqrt 的计算结果都是正确的

通过上位机看到, 锁相的角度 PLLconReg.Theta 的值是有的, 三角运算后 CLAsin(PLLconReg.Theta)和 CLAcos(PLLconReg.Theta)一直是零。

目前添加是库有:

- ▼ DSP28377D_Library
 - c1bootROM_BootROMSymbols_fpu32.lib
 - c1bootROM_BootROMSymbols.lib
 - c28x_fpu_dsp_library_coff.lib
 - c28x_fpu_dsp_library.lib
 - cla1_math_library_datarom_fpu32.lib
 - cla1_math_library_datarom.lib
 - cla1_math_library_fpu32.lib
 - cla1_math_library.lib
 - cla1_math.lib
 - F021_API_F2837xD_FPU32.lib
 - F021_API_F2837xD.lib
 - F2837xRevB_c1bootROM_BootROMSymbols_fpu32.lib
 - F2837xRevB_c1bootROM_BootROMSymbols.lib
 - F2837xRevB_c1bootROM_CLADataROMSymbols_fpu32.lib
 - rts2800_fpu32_fast_supplement_coff.lib
 - rts2800_fpu32_fast_supplement.lib
 - rts2800_fpu32.lib
- > DSP28377D_Source

源文件:



CMD 文件中:

```
CLA1mathTables : > RAMLS45, PAGE = 1

CLA1mathTables : LOAD = FLASHA_M,
                 RUN = RAMLS45,
                 RUN_START(_CLA1mathTablesRunStart),
                 LOAD_START(_CLA1mathTablesLoadStart),
                 LOAD_SIZE(_CLA1mathTablesLoadSize),
                 PAGE = 1
```

```
CLAscratch :
{ *.obj (CLAscratch)
. += CLA_SCRATCHPAD_SIZE;
*.obj (CLAscratch_end) } > RAMLS45, PAGE = 1

.scratchpad : > RAMLS45, PAGE = 1
.bss_cla : > RAMLS45, PAGE = 1
.const_cla : > RAMLS45, PAGE = 1
```

CLA 的初始化中:

```

#ifndef CLA_C
    memcpy((uint32_t *)&ClalfuncsRunStart, (uint32_t *)&ClalfuncsLoadStart, (uint32_t *)&ClalfuncsLoadSize);
    memcpy((uint32_t *)&CLAlmathTablesRunStart, (uint32_t *)&CLAlmathTablesLoadStart, (uint32_t *)&CLAlmathTablesLoadSize);
    // MemCopy(&ClalfuncsLoadStart, &ClalfuncsLoadEnd, &ClalfuncsRunStart);
#endif
// End of Header and code for CLAlMATH_RAM

#ifndef _FLASH
    //
    // Copy time critical code and Flash setup code to RAM. This includes the
    // following functions: InitFlash()
    //
    // The RamfuncsLoadStart, RamfuncsLoadSize, and RamfuncsRunStart
    // symbols are created by the linker. Refer to the device .cmd file.
    //
    // MemCopy(&RamfuncsLoadStart, &RamfuncsLoadEnd, &RamfuncsRunStart);
    memcpy(&RamfuncsRunStart, &RamfuncsLoadStart, (size_t)&RamfuncsLoadSize);
    // asm ("        ESTOP0");
    //
    // Call Flash Initialization to setup flash waitstates. This function must
    // reside in RAM.
    //
    InitFlash();
#endif

```

.cla 的执行文件中的头文件:

```

#include "F28x_Project.h" // Device Headerfile and Examples Include
#include "CLAlmath.h"

```

预定义如下:

