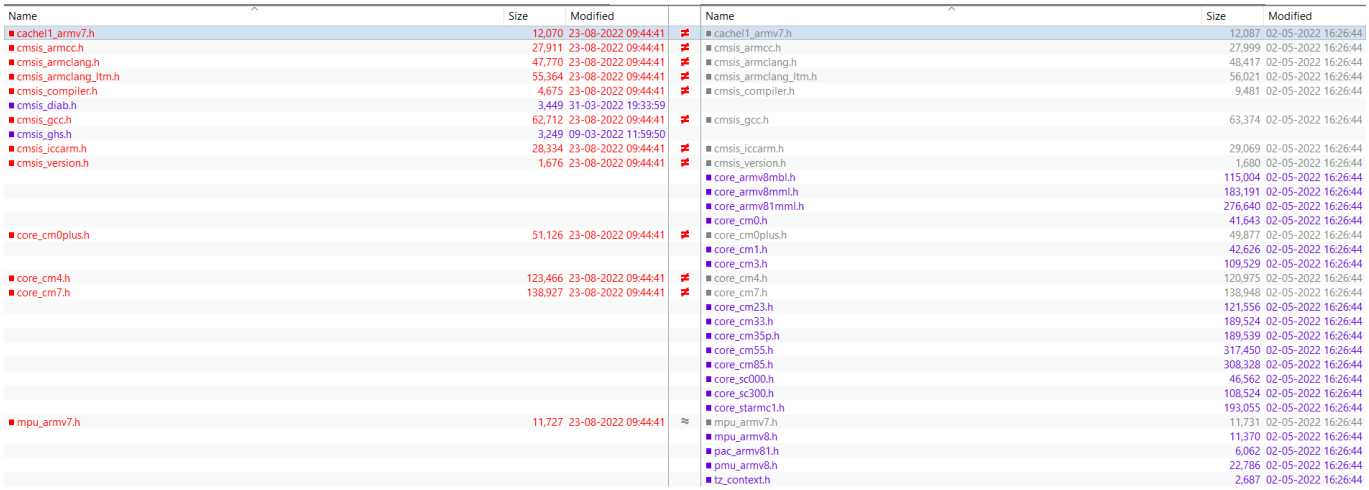
TRAVEO™ T2G Sample Driver Library (SDL) FOSS Report

Arm® CMSIS v5.9.0:
Open source link: https://github.com/ARM-software/CMSIS_5/releases/tag/5.9.0
(https://github.com/ARM-software/CMSIS_5/tree/5.9.0)

These contain Apache 2.0 license text as part of the files.
CMSIS Core: https://github.com/ARM-software/CMSIS_5/tree/5.9.0/CMSIS/Core/Include

Comparison between CMSIS files used in SDL and Arm® CMSIS files:



Name	Size	Modified		Name	Size	Modified
cachel1_armv7.h	12,070	23-08-2022 09:44:41	≠	cachel1_armv7.h	12,087	02-05-2022 16:26:44
cmsis_armcc.h	27,911	23-08-2022 09:44:41	≠	cmsis_armcc.h	27,999	02-05-2022 16:26:44
cmsis_armclang.h	47,770	23-08-2022 09:44:41	≠	cmsis_armclang.h	48,417	02-05-2022 16:26:44
cmsis_armclang_ltm.h	55,364	23-08-2022 09:44:41	≠	cmsis_armclang_ltm.h	56,021	02-05-2022 16:26:44
cmsis_compiler.h	4,675	23-08-2022 09:44:41	≠	cmsis_compiler.h	9,481	02-05-2022 16:26:44
cmsis_diab.h	3,449	31-03-2022 19:33:59				
cmsis_gcc.h	62,712	23-08-2022 09:44:41	≠	cmsis_gcc.h	63,374	02-05-2022 16:26:44
cmsis_ghs.h	3,249	09-03-2022 11:59:50				
cmsis_iccarm.h	28,334	23-08-2022 09:44:41	≠	cmsis_iccarm.h	29,069	02-05-2022 16:26:44
cmsis_version.h	1,676	23-08-2022 09:44:41	≠	cmsis_version.h	1,680	02-05-2022 16:26:44
				core_armv8mbl.h	115,004	02-05-2022 16:26:44
				core_armv8mml.h	183,191	02-05-2022 16:26:44
				core_armv81mml.h	276,640	02-05-2022 16:26:44
				core_cm0.h	41,643	02-05-2022 16:26:44
core_cm0plus.h	51,126	23-08-2022 09:44:41	≠	core_cm0plus.h	49,877	02-05-2022 16:26:44
				core_cm1.h	42,626	02-05-2022 16:26:44
				core_cm3.h	109,529	02-05-2022 16:26:44
core_cm4.h	123,466	23-08-2022 09:44:41	≠	core_cm4.h	120,975	02-05-2022 16:26:44
core_cm7.h	138,927	23-08-2022 09:44:41	≠	core_cm7.h	138,948	02-05-2022 16:26:44
				core_cm23.h	121,556	02-05-2022 16:26:44
				core_cm33.h	189,524	02-05-2022 16:26:44
				core_cm35p.h	189,539	02-05-2022 16:26:44
				core_cm55.h	317,450	02-05-2022 16:26:44
				core_cm85.h	308,328	02-05-2022 16:26:44
				core_sc000.h	46,562	02-05-2022 16:26:44
				core_sc300.h	108,524	02-05-2022 16:26:44
				core_starmc1.h	193,055	02-05-2022 16:26:44
mpu_armv7.h	11,727	23-08-2022 09:44:41	≈	mpu_armv7.h	11,731	02-05-2022 16:26:44
				mpu_armv8.h	11,370	02-05-2022 16:26:44
				pac_armv81.h	6,062	02-05-2022 16:26:44
				pmu_armv8.h	22,786	02-05-2022 16:26:44
				tz_context.h	2,687	02-05-2022 16:26:44

Left side is the list of files used in SDL, RED marker shows the files which are modified.

cmsis_compiler.h:

- GHS and Windriver DIAB support added

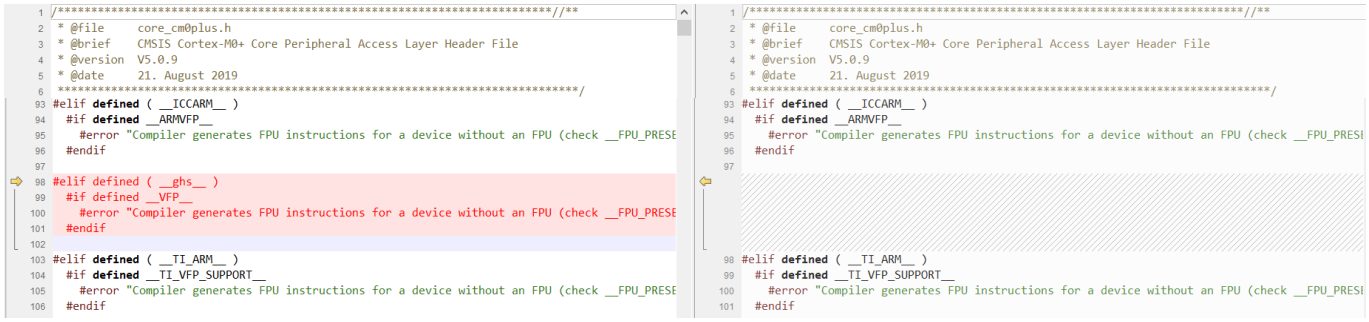
```
/**************************************************************************//**
 * @file     cmsis_compiler.h
 * @brief    CMSIS compiler generic header file
 * @version  V5.1.0
 * @date     09. October 2018
 ******************************************************************************/
/*
 * IAR Compiler
 */
#elif defined ( __ICCARM__ )
  #include <cmsis_iccarm.h>

/*
 * GHS Compiler
 */
#elif defined ( __ghs__ )

  #include <cmsis_ghs.h>


/*
 * Wind River DIAB Compiler
 */
#elif defined ( __DCC__ )

  #include <cmsis_diab.h>
```

```
/**************************************************************************//**
 * @file     cmsis_compiler.h
 * @brief    CMSIS compiler generic header file
 * @version  V5.1.0
 * @date     09. October 2018
 ******************************************************************************/
/*
 * IAR Compiler
 */
#elif defined ( __ICCARM__ )
  #include <cmsis_iccarm.h>


/*
 * TI Arm Compiler
 */
#elif defined ( __TI_ARM__ )
  #include <cmsis_ccs.h>
```


restricted

core_cm0plus.h:

- GHS support added

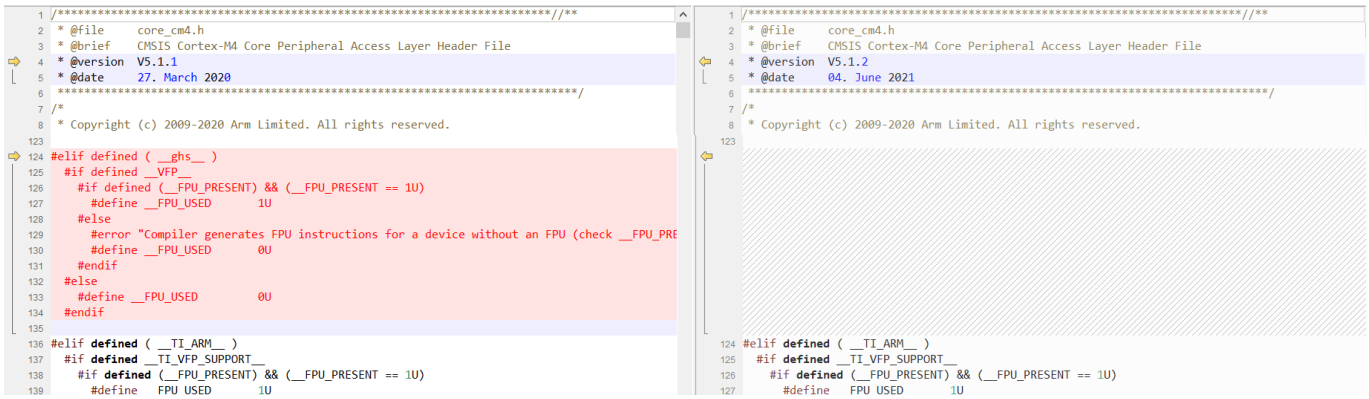


```
/**************************************************************************//**
 * @file     core_cm0plus.h
 * @brief    CMSIS Cortex-M0+ Core Peripheral Access Layer Header File
 * @version  V5.0.9
 * @date     21. August 2019
 ******************************************************************************/
#elif defined ( __ICCARM__ )
  #if defined __ARMVFP__
    #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRESE
  #endif

#elif defined ( __ghs__ )
  #if defined __VFP__
    #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRESE
  #endif

#elif defined ( __TI_ARM__ )
  #if defined __TI_VFP_SUPPORT__
    #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRESE
  #endif
```

```
/**************************************************************************//**
 * @file     core_cm0plus.h
 * @brief    CMSIS Cortex-M0+ Core Peripheral Access Layer Header File
 * @version  V5.0.9
 * @date     21. August 2019
 ******************************************************************************/
#elif defined ( __ICCARM__ )
  #if defined __ARMVFP__
    #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRESE
  #endif

#elif defined ( __TI_ARM__ )
  #if defined __TI_VFP_SUPPORT__
    #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRESE
  #endif
```

core_cm4.h:

- GHS support added

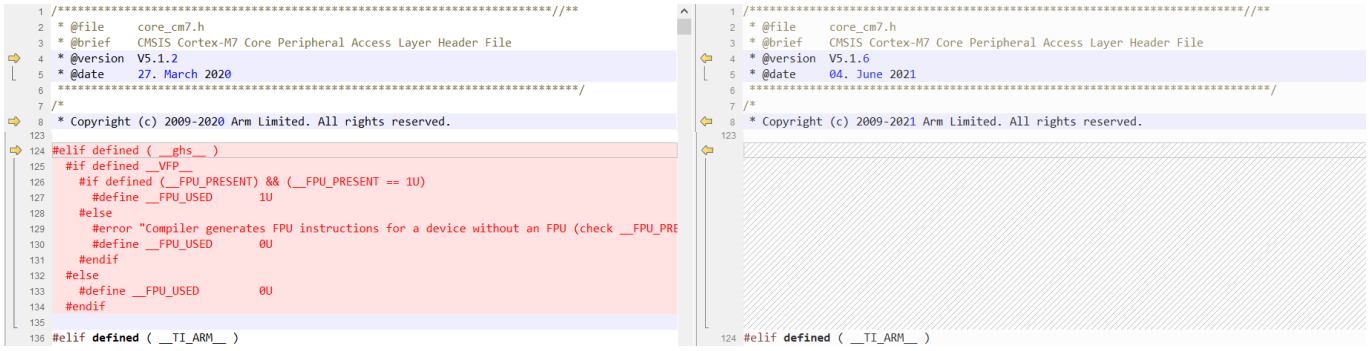


```
/**************************************************************************//**
 * @file     core_cm4.h
 * @brief    CMSIS Cortex-M4 Core Peripheral Access Layer Header File
 * @version  V5.1.1
 * @date     27. March 2020
 ******************************************************************************/
/*
 * Copyright (c) 2009-2020 Arm Limited. All rights reserved.

#elif defined ( __ghs__ )
  #if defined __VFP__
    #if defined (__FPU_PRESENT) && (__FPU_PRESENT == 1U)
      #define __FPU_USED       1U
    #else
      #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRE
      #define __FPU_USED       0U
    #endif
  #else
    #define __FPU_USED         0U
  #endif

#elif defined ( __TI_ARM__ )
  #if defined __TI_VFP_SUPPORT__
    #if defined (__FPU_PRESENT) && (__FPU_PRESENT == 1U)
      #define   FPU USED       1U
```

```
/**************************************************************************//**
 * @file     core_cm4.h
 * @brief    CMSIS Cortex-M4 Core Peripheral Access Layer Header File
 * @version  V5.1.2
 * @date     04. June 2021
 ******************************************************************************/
/*
 * Copyright (c) 2009-2020 Arm Limited. All rights reserved.

#elif defined ( __TI_ARM__ )
  #if defined __TI_VFP_SUPPORT__
    #if defined (__FPU_PRESENT) && (__FPU_PRESENT == 1U)
      #define   FPU USED       1U
```

core_cm7.h:

- GHS support added



```
/**************************************************************************//**
 * @file     core_cm7.h
 * @brief    CMSIS Cortex-M7 Core Peripheral Access Layer Header File
 * @version  V5.1.2
 * @date     27. March 2020
 ******************************************************************************/
/*
 * Copyright (c) 2009-2020 Arm Limited. All rights reserved.

#elif defined ( __ghs__ )
  #if defined __VFP__
    #if defined (__FPU_PRESENT) && (__FPU_PRESENT == 1U)
      #define __FPU_USED       1U
    #else
      #error "Compiler generates FPU instructions for a device without an FPU (check __FPU_PRE
      #define __FPU_USED       0U
    #endif
  #else
    #define __FPU_USED         0U
  #endif

#elif defined ( __TI_ARM__ )
```

```
/**************************************************************************//**
 * @file     core_cm7.h
 * @brief    CMSIS Cortex-M7 Core Peripheral Access Layer Header File
 * @version  V5.1.6
 * @date     04. June 2021
 ******************************************************************************/
/*
 * Copyright (c) 2009-2021 Arm Limited. All rights reserved.

#elif defined ( __TI_ARM__ )
```