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Contents

1	Concept 1.1 Introduction 1.2 Prerequisites 1.3 Documents	2 2
2	Installing the Pack 2.1 CMSIS-Toolbox 2.2 IAR Embedded Workbench	4
3	Blinky example: CMSIS-Toolbox 3.1 Import 3.2 Build 3.3 Run - Terminal 3.4 Run - FPGA	5 5 6
4	Blinky example: Keil Studio 4.1 Import. 4.2 Build. 4.3 Run - Terminal. 4.4 Run - FPGA.	7 8 8
5	Blinky example: IAR Embedded Workbench 5.1 Import	10 11 11 12
6	Vio example: CMSIS-Toolbox 6.1 Import. 6.2 Build. 6.3 Run - Terminal.	13 13
7	Vio example: Keil Studio 7.1 Import 7.2 Build 7.3 Run - Terminal	15 16
8	Vio example: IAR Embedded Workbench 8.1 Import	18 19 19

9	9 Attachments		
	9.1	Blinky example tree	21
		Vio example tree	21

1 Concept

1.1 Introduction

This document is a general guide to use the SSE-310 MPS3 BSP pack. The CMSIS pack is to be used with the Corstone®-310 platform MPS3 FVP model or AN555 FPGA (AN555: Arm Corstone™ SSE-310 with Cortex®-M85 and Ethos™-U65: Example Subsystem for MPS3). The pack contains necessary source files, a linker script file, and a specification document to kick-start development for the Corstone-310 MPS3 platform, and a reference secure side Blinky example to enable a user to understand uVision and IAR project configuration. The pack also provides a System View Description (SVD) file for the platform to be used with the uVision and IAR debugger. This document specifies system prerequisites and explains how to build and run the reference Blinky example on the SSE-310 MPS3 FVP model and on the AN555 FPGA.

Terms and Abbreviations:

Terms	Meaning	
BSP	Board Support Pack	
FVP	Fixed Virtual Platform	
FPGA	Field Programmable Gate Array	
VIO	IO Virtual I/O	

1.2 Prerequisites

• Developement Environments:

CMSIS-Toolbox v5.38. or IAR Embedded Workbench v9.40,

• Compiler:

Arm Compiler for Embedded (Version 6.20 or newer), GNU Arm Embedded Toolchain Arm GCC (Version 11.3 or newer), LLVM Embedded Toolchain for Arm (Version 17.0.1 or newer), IAR C/C++ Compiler for Arm (Version 9.50.1 or newer),

• FVP model:

Corstone SSE-310 MPS3 FVP model,

• MPS3 FPGA:

AN555: Arm Corstone™ SSE-310 with Cortex®-M85 and Ethos™-U65 Example Subsystem for MPS3 FPGA,

- Package manager: vcpkg.
- Python version 3.9 for VIO examples

Download **Python3.9** like the following on **Ubuntu** if the version at **apt** is not working:

```
Note
```

```
$ sudo apt-get update && sudo apt-get upgrade
$ sudo apt-get install -y make build-essential libssl-dev zlib1g-dev libbz2-dev
libreadline-dev libsqlite3-dev wget curl llvm libncurses5-dev libncursesw5-dev
xz-utils tk-dev liblzma-dev tk-dev libffi-dev
```

```
$ wget https://www.python.org/ftp/python/3.9.18/Python-3.9.18.tgz
$ tar xzf Python-3.9.18.tgz && cd Python-3.9.18
```

```
$ ./configure --prefix=/opt/python/3.9.18/ --enable-optimizations
$ make -j "$(nproc)"
```

\$ sudo make altinstall

\$ export PYTHONHOME=/opt/python/3.9.18

1.3 Documents

- 1. Corstone-310 FVP Technical Overview: contains overview of the FVP and its features.
- 2. Arm Corstone™ SSE-310 with Cortex-M85 and Ethos™-U65: Example Subsystem for MPS3: contains overview of the FPGA and its features.
- 3. Arm Corstone SSE-310 Subsystem Technical Reference Manual: contains the specification of the architecture of the subsystem, description of several interfaces (address, data width, clock/power/reset domain), functional description of the components.



SSE-310 MPS3 BSP Pack contains additional documentation in the "Documents" folder.

2 Installing the Pack

2.1 CMSIS-Toolbox

To install the ARM:: V2M MPS3 SSE 310 BSP pack in command-line, use:

\$ cpackget add ARM.V2M MPS3 SSE 310 BSP

This will install the prerequired ARM.CMSIS.6.0.0, ARM.CMSIS-Compiler.2.0.0 and ARM.DMA350.1.0.0 packages as well

2.2 IAR Embedded Workbench

Install ARM::V2M_MPS3_SSE_310_BSP using the CMSIS-Pack Manager. (Find: Project > CMSIS-Pack Manager) The pack can be browsed by selecting SSE-310-MPS3 device under ARM Cortex M85 Devices.

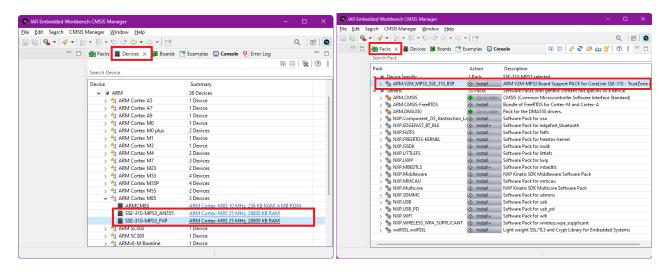


Figure 1: Selecting ARM:: V2M MPS3 SSE 310 BSP using IAR CMSIS-Pack Manager

3 Blinky example: CMSIS-Toolbox

You can see the example's folder structure under Blinky example tree chapter. The following example will assume the usage of a linux machine, therefore some commands might differ on Windows and Mac.

As the example contains a Makefile, you can use that as well, but we will go through in every configuration without it as well.

3.1 Import

Copy the containing folder from the CMSIS Pack to your working directory, and provide it with the necessary permissions:

```
$ cp -r ${CMSIS_PACK_R00T}/ARM/V2M_MPS3_SSE_310_BSP/1.4.0/Examples/Blinky blinky-example
$ chmod -R +w blinky-example
$ cd blinky-example
```

Then install the project dependencies:

\$ vcpkg activate

Read more about vcpkg

3.2 Build

The examples support the [AC6, GCC, IAR, CLANG] compilers, which are represented as [armclang, gcc, iar, clang] in the Makefile. And in default it builds all two variants of [MPS3_FVP, MPS3_AN555]. Let's make a build with AC6 toolchain for the MPS3_FVP:

```
$ cbuild Blinky.csolution.yml --packs --update-rte --jobs $(nproc) --context .Debug+MPS3_FVP --toolchain
AC6
```

or

\$ make armclang



If you just want to generate the .cprj project files, without building the whole project, you can use csolution.

\$ csolution convert Blinky.csolution.yml --toolchain [AC6, GCC, IAR, CLANG] --context
.[Debug, Release]+[MPS3 FVP, MPS3 AN555]

Used tags while building:

Tag	Mandatory	Meaning
—packs	No	Downloading packs required for the pack.
—update-rte	No	Overwrite RTE folder content from pack.
—jobs [n]	No	Build on [n] threads.
—toolchain	Yes	Compiler Toolchain. If missing builds for all 4 compilers.
context	Yes	Selecting the build type or board.
		Select . Debug or . Release

See the help and documentation of cbuild for further help.

Binary:

Find the binary files in the following location:

```
build/{platform}/{toolchain}/{type}/{example}/outdir/Blinky.[axf,elf,out]
as
build/MPS3 FVP/AC6/Debug/Blinky/outdir/Blinky.axf
```

3.3 Run - Terminal

After building the target, you can launch the FVP, using the command:

\$ <path to fvp>/FVP Corstone SSE-310 Ethos-U65 -a build/MPS3 FVP/AC6/Debug/Blinky/outdir/Blinky.axf

or, after setting the model path <path to fvp> in the Makefile:

\$ make run-armclang

3.4 Run - FPGA

Make sure to rebuild the application with MPS3_AN555. If you translated with make, then you should already have binary files in the bins/ folder. To translate the output elf file to binary, run the following command for the specific compiler:

Compiler	Command	Arguments
armclang	fromelf	bin bins/an555/Blinky.axf -o bins/an555/Blinky_armclang.bin
gcc	arm-none-eabi-objcopy	-O binary bins/an555/Blinky.elf bins/an555/Blinky_gcc.bin
clang	llvm-objcopy	-O binary bins/an555/Blinky.clang.elf bins/an555/Blinky_clang.bin
iar	ielftool	bin bins/an555/Blinky.out bins/an555/Blinky_iar.bin

Copy the binary to the FPGA's SD card (x:/SOFTWARE) and set the address in images.txt (x:/MB/HBI0309C/AN555/images.txt) to 0x000000000, then restart the FPGA.

 ${\tt IMAGE0ADDRESS:\ 0\times000000000}$;

IMAGEOUPDATE: AUTO ;

IMAGEOFILE: /SOFTWARE/Blinky.bin ;

After uploading the example code, restart the FPGA and see the output on the LEDs and the serial output.

4 Blinky example: Keil Studio

You can see the example's folder structure under Blinky example tree chapter.



To Use Keil Studio, install the Keil Studio Pack in Visual Studio Code

4.1 Import

Copy the containing folder from the CMSIS Pack:

- \$ cp -r \${CMSIS_PACK_R00T}/ARM/V2M_MPS3_SSE_310_BSP/1.4.0/Examples/Blinky blinky-example
 \$ chmod -R +w blinky-example
 \$ cd blinky-example
- Then open your working directory in Visual Studio Code.

Or open from Visual Studio Code:

Go to CMSIS, then create a solution with SSE-310-MPS3 selected as the following:

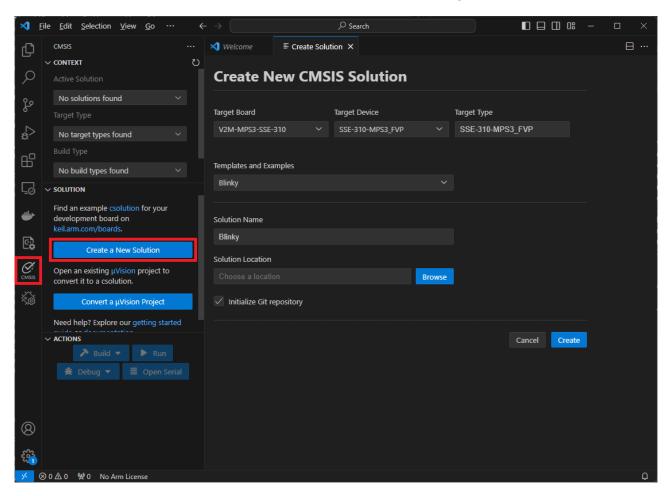


Figure 2: Keil Studio: Importing Blinky Project

4.2 Build

To build the example, open the CMSIS tab on the left side of Visual Studio Code, then click on Build.

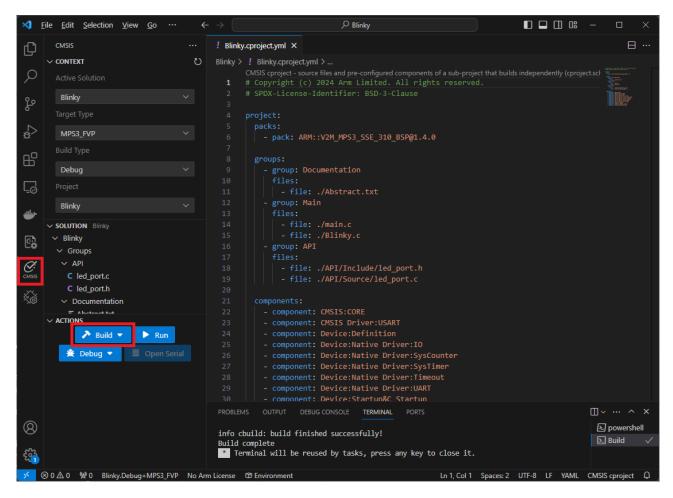


Figure 3: Keil Studio: Building Project

Set compiler:

By default the project is built by GCC toolchain.

To build with other toolchain, add 'compiler: [AC6, GCC, IAR, CLANG]' to Blinky.csolution.yml under solution: tag, like:

12.

13. compiler: AC6

14. cdefault:

15.

Binary:

Find the binary files in the following location:

 $build/{platform}/{toolchain}/{type}/{example}/outdir/Blinky.[axf,elf,out] \\ as \\ build/MPS3_FVP/AC6/Debug/Blinky/outdir/Blinky.axf$

4.3 Run - Terminal

After building the target, you can launch the FVP, using the command:

\$ <path_to_fvp>/FVP_Corstone_SSE-310_Ethos-U65 -a build/MPS3_FVP/AC6/Debug/Blinky/outdir/Blinky.axf

4.4 Run - FPGA

Make sure to build the application with MPS3_AN555. To translate the output elf file to binary, run the following command for the specific compiler:

Compiler	Command	Arguments
armclang	fromelf	bin bins/an555/Blinky.axf -o bins/an555/Blinky_armclang.bin
gcc	arm-none-eabi-objcopy	-O binary bins/an555/Blinky.elf bins/an555/Blinky_gcc.bin
clang	llvm-objcopy	-O binary bins/an555/Blinky.clang.elf bins/an555/Blinky_clang.bin
iar	ielftool	bin bins/an555/Blinky.out bins/an555/Blinky_iar.bin

Copy the binary to the FPGA's SD card (x:/SOFTWARE) and set the address in images.txt (x:/MB/HBI0309C/AN555/images.txt) to 0x00000000, then restart the FPGA.

IMAGEOADDRESS: 0x00000000 ;

IMAGEOUPDATE: AUTO ;

IMAGEOFILE: /SOFTWARE/Blinky.bin ;

After uploading the example code, restart the FPGA and see the output on the LEDs and the serial output.

5 Blinky example: IAR Embedded Workbench

You can see the example's folder structure under Blinky example tree chapter.

5.1 Import

To import the example, first you need to copy the project files, as shown in section 3. After copying the project, import it the following way:

- 1. Create a new workspace, (File > New Workspace)
- 2. Open Create a new project window for importing csolution projects. (Project > Create New Project...)
- 3. Select tool chain: CMake for Arm
- 4. Select project template: Import csolution.yml
- 5. Click Next, navigate to the project folder and select the Blinky.csolution.yml file.

Before building

- add 'compiler: IAR' to Blinky.csolution.yml under solution: tag.
 compiler: IAR
 cdefault:
- set CMake and CMSIS-Toolbox binary path.
 The minimum version that supports IAR is 2.2.1.
 Go to (Tools > Options... > CMake/CMSIS-Toolbox).

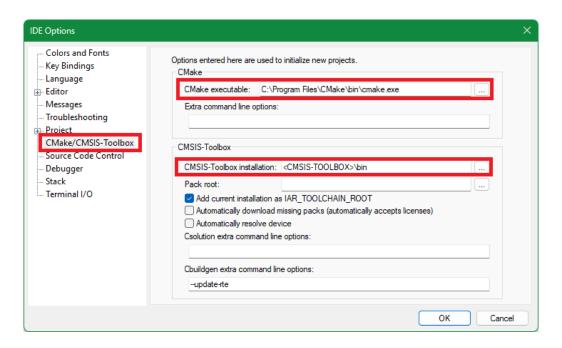


Figure 4: IAR EW: Set CMSIS-Toolbox path



If you encounter issues while generating the project files, first make sure that you are using the correct CMSIS-Toolbox version! Minimum **2.2.1**.

Please refer to the CMSIS-Toolbox Installation Guide or install it with \$ vcpkg activate.

5.2 Build

To build the example click on the "Make" button, or press "F7".

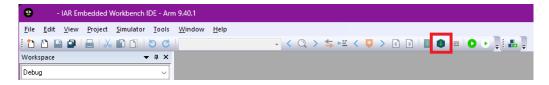


Figure 5: IAR EW: Building the Blinky example

5.3 Run and Debug

This section explains how to run the Blinky example on the Corstone SSE-310 FVP model. First, download and install the SSE-310 FVP from the link provided in the Prerequisites section.

To debug the example inside the IAR Embedded Workbench software, follow the steps below.

Start up the FVP with a CADI server:

<path_to_fvp>/FVP_Corstone_SSE-310_Ethos-U65.exe -S

Set up the debugger inside IAR:

Open the project Options, by clicking on the root file in the Workspace and then selecting it from the Project menu item. (Project > Options)

Select the Debugger in the Category list and select CADI as Driver on the Setup tab.

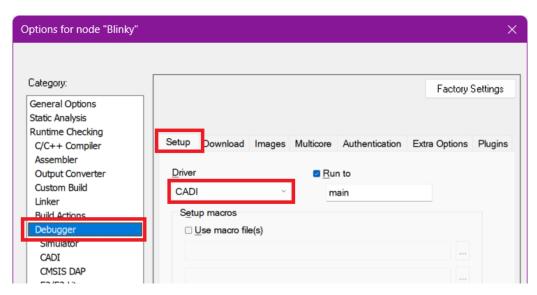


Figure 6: IAR EW: Selecting Debugger



You can select the desired CADI server in the CADI Category if there are more than one you wish to use. Otherwise, it can be left empty.

To run the debugger click on the "Download and Debug" button. The application will be automatically loaded to the model by the debugger.

5.4 Run - Terminal

After building the target, you can launch the FVP from the terminal, using the command:

<path_to_fvp>/FVP_Corstone_SSE-310_Ethos-U65.exe <path_to_bin>/Blinky.out

5.5 Run - FPGA

To translate the output elf file to binary, run the following command for the specific compiler:

Compiler	Command	Arguments
armclang	fromelf	bin bins/an555/Blinky.axf -o bins/an555/Blinky_armclang.bin
gcc	arm-none-eabi-objcopy	-O binary bins/an555/Blinky.elf bins/an555/Blinky_gcc.bin
clang	llvm-objcopy	-O binary bins/an555/Blinky.clang.elf bins/an555/Blinky_clang.bin
iar	ielftool	bin bins/an555/Blinky.out bins/an555/Blinky_iar.bin

Copy the binary to the FPGA's SD card (x:/SOFTWARE) and set the address in images.txt

(x:/MB/HBI0309C/AN555/images.txt) to 0x00000000, then restart the FPGA.

IMAGEOADDRESS: 0x00000000 ;
IMAGEOUPDATE: AUTO ;

IMAGEOFILE: /SOFTWARE/Blinky.bin ;

To debug the project:

 Select the "CMSIS DAP" Driver, and connect to the running example afterwards. (Project > Options > Debugger > Setup > Driver)

2. Click on "Run and Debug".



If you have are using a revision ${\bf B}$ board, use the ${\bf HBI0309B}$ directory. The examples are only verified on the revision ${\bf C}$ boards.

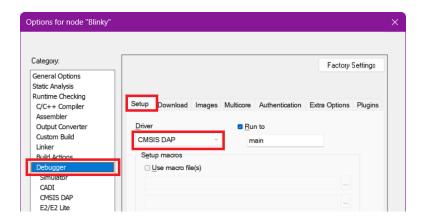


Figure 7: IAR EW: Select "CMSIS DAP" Debugger for MPS3 FPGA

6 Vio example: CMSIS-Toolbox

You can see the example's folder structure under Vio example tree chapter. The following example will assume the usage of a linux machine, therefore some commands might differ on Windows and Mac.

As the example contains a Makefile, you can use that as well, but we will go through in every configuration without it as well.

6.1 Import

Copy the containing folder from the CMSIS Pack to your working directory, and provide it with the necessary permissions:

```
$ cp -r ${CMSIS_PACK_ROOT}/ARM/V2M_MPS3_SSE_310_BSP/1.4.0/Examples/Vio vio-example
$ chmod -R +w vio-example
```

\$ cd vio-example

Then install the project dependencies:

\$ vcpkg activate

Read more about vcpkg

6.2 Build

The examples support the [AC6, GCC, IAR, CLANG] compilers, which are represented as [armclang, gcc, iar, clang] in the Makefile. Let's make a build with AC6 toolchain:

```
$ cbuild Vio.csolution.yml --packs --update-rte --jobs $(nproc) --context .Debug --toolchain AC6
or
```

\$ make armclang



After building, make sure to provide a minimum of **0x600** memory to stack allocation.

In Vio/RTE/Device/SSE_310_MPS3_FVP/regions_V2M_MPS3_SSE_310_FVP.h modify #define __STACK_SIZE 0x00000200 to #define __STACK_SIZE 0x00000600.
Then rebuild without --update-rte.

Used tags while building:

Tag	Mandatory	Meaning
—packs	No	Downloading packs required for the pack.
-update-rte	No	Overwrite RTE folder content from pack.
—jobs [n]	No	Build on [n] threads.
—toolchain	Yes	Compiler Toolchain. If missing builds for all 4 compilers.
—context	Yes	Selecting the build type or board.
		Select .Debug or .Release

See the help and documentation of chuild for further help.



If you just want to generate the .cprj project files, without building the whole project, you can use csolution

\$ csolution convert Blinky.csolution.yml --context .[Debug, Release] --toolchain [AC6, GCC, IAR, CLANG]

Binary:

Find the binary files in the following location:

build/{platform}/{toolchain}/{type}/{example}/outdir/Vio.[axf,elf,out]
as

build/MPS3_FVP/AC6/Debug/Vio/outdir/Vio.axf

6.3 Run - Terminal

Download arm vio.py, like the following:

On Windows:

PS > wget https://github.com/ARM-software/AVH/raw/main/interface/python/arm_vio.py -OutFile arm_vio.py On Linux:

\$ wget https://github.com/ARM-software/AVH/raw/main/interface/python/arm_vio.py -o arm_vio.py

Then set verbosity = logging.DEBUG in it.

```
16 ## Set verbosity level

17 verbosity = logging.DEBUG

18 #verbosity = logging.ERROR
```

Figure 8: Setting debug mode in arm vio.py

Set environmental variables:

On Windows:

PS > \$env:PYTHONHOME = 'C:/Users/<user>/AppData/Local/Programs/Python/Python39'

On Linux:

\$ export PYTHONHOME=/opt/python/3.9.18

After building the target, you can launch the FVP, using the command:

\$ <path_to_fvp>/FVP_Corstone_SSE-310_Ethos-U65 -a build/MPS3_FVP/AC6/Debug/Vio/outdir/Vio.axf
-C mps3_board.v_path=<path_to_vio_py_dir>

or, after setting the model path <path_to_fvp> and <path_to_vio_py_dir> in the Makefile:

\$ make run-armclang



Remember to use the path of the containing folder of arm_vio.py when specifying path cpath_to_vio_py_dir>.

7 Vio example: Keil Studio

You can see the example's folder structure under Vio example tree chapter.



To Use Keil Studio, install the Keil Studio Pack in Visual Studio Code

7.1 Import

Copy the containing folder from the CMSIS Pack:

```
$ cp -r ${CMSIS_PACK_ROOT}/ARM/V2M_MPS3_SSE_310_BSP/1.4.0/Examples/Vio vio-example
$ chmod -R +w vio-example
$ cd vio-example
```

Then open your working directory in Visual Studio Code.

Or open from Visual Studio Code:

Go to CMSIS, then create a solution with SSE-310-MPS3 selected as the following:

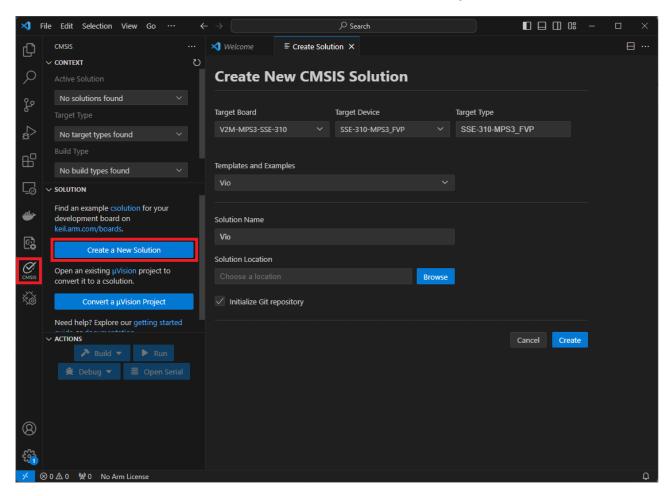


Figure 9: Keil Studio: Importing Vio Project

7.2 Build

To build the example, open the CMSIS tab on the left side of Visual Studio Code, then click on Build.

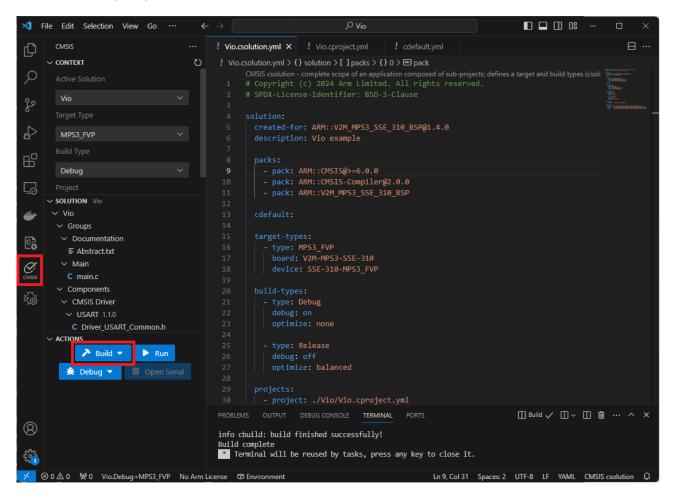


Figure 10: Keil Studio: Building Project



After building, make sure to provide a minimum of 0x600 memory to stack allocation.

In Vio/RTE/Device/SSE_310_MPS3_FVP/regions_V2M_MPS3_SSE_310_FVP.h modify
#define __STACK_SIZE 0x00000200 to
#define __STACK_SIZE 0x00000600.
Then rebuild.

Set compiler:

By default the project is built by GCC toolchain.

To build with other toolchain, add 'compiler: [AC6, GCC, IAR, CLANG]' to Vio.csolution.yml under solution: tag, like:

12.

- 13. compiler: AC6
- 14. cdefault:
- 15.

Binary:

Find the binary files in the following location:

 $\label{lem:build-platform} $$ build/{platform}/{toolchain}/{type}/{example}/outdir/Vio.[axf,elf,out] $$ as $$ build/MPS3_FVP/AC6/Debug/Blinky/outdir/Vio.axf $$ $$ axforms for the context of the conte$

7.3 Run - Terminal

Download arm vio.py, like the following:

On Windows:

PS > wget https://github.com/ARM-software/AVH/raw/main/interface/python/arm_vio.py -OutFile arm_vio.py On Linux:

\$ wget https://github.com/ARM-software/AVH/raw/main/interface/python/arm_vio.py -o arm_vio.py

Then set verbosity = logging.DEBUG in it.

```
16 ## Set verbosity level

17 verbosity = logging.DEBUG

18 #verbosity = logging.ERROR
```

Figure 11: Setting debug mode in arm_vio.py

Set environmental variables:

On Windows:

PS > \$env:PYTHONHOME = 'C:/Users/<user>/AppData/Local/Programs/Python/Python39'
On Linux:

\$ export PYTHONHOME=/opt/python/3.9.18

After building the target, you can launch the FVP, using the command:

\$ <path_to_fvp>/FVP_Corstone_SSE-310_Ethos-U65 -a build/MPS3_FVP/AC6/Debug/Vio/outdir/Vio.axf
-C mps3_board.v_path=<path_to_vio_py_dir>

or, after setting the model path <path_to_fvp> and <path_to_vio_py_dir> in the Makefile:

\$ make run-armclang



Remember to use the path of the containing folder of $arm_vio.py$ when specifying path $<path_to_vio_py_dir>$.

8 Vio example: IAR Embedded Workbench

You can see the example's folder structure under Vio example tree chapter.

8.1 Import

To import the example, first you need to copy the project files, as shown in section 3. After copying the project, import it the following way:

- 1. Create a new workspace, (File > New Workspace)
- 2. Open Create a new project window for importing csolution projects. (Project > Create New Project...)
- 3. Select tool chain: CMake for Arm
- 4. Select project template: Import csolution.yml
- 5. Click Next, navigate to the project folder and select the Vio.csolution.yml file.

Before building

- add 'compiler: IAR' to Vio.csolution.yml under solution: tag.
 compiler: IAR
 cdefault:
 tag.
- set CMake and CMSIS-Toolbox binary path.
 The minimum version that supports IAR is 2.2.1.
 Go to (Tools > Options... > CMake/CMSIS-Toolbox).

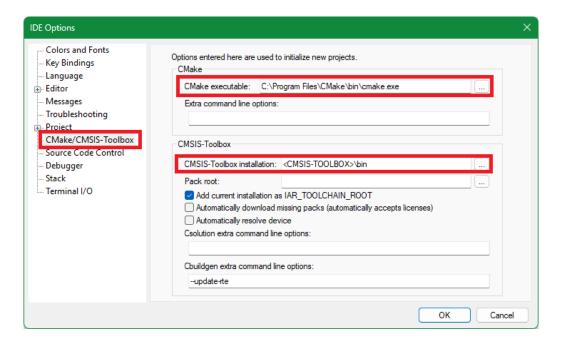


Figure 12: IAR EW: Set CMSIS-Toolbox path



If you encounter issues while generating the project files, first make sure that you are using the correct CMSIS-Toolbox version! Minimum **2.2.1**.

Please refer to the CMSIS-Toolbox Installation Guide or install it with \$ vcpkg activate.

8.2 Build

To build the example click on the "Make" button, or press "F7".

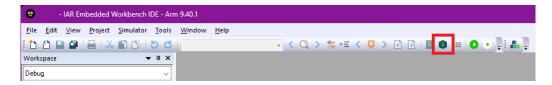


Figure 13: IAR EW: Building the Vio example



After building, make sure to provide a minimum of **0x600** memory to stack allocation.

In Vio/RTE/Device/SSE_310_MPS3_FVP/regions_V2M_MPS3_SSE_310_FVP.h modify #define __STACK_SIZE 0x00000200 to #define __STACK_SIZE 0x00000600.
Then rebuild.

8.3 Run and Debug

This section explains how to run the Vio example on the Corstone SSE-310 FVP model. First, download and install the SSE-310 FVP from the link provided in the Prerequisites section.



The VIO example might not work with newer Python versions. To run the example use version Python3.9.x.

To debug the example inside the IAR Embedded Workbench software, follow the steps below. Download arm vio.py, like the following:

PS > wget https://github.com/ARM-software/AVH/raw/main/interface/python/arm_vio.py -OutFile arm_vio.py Then uncomment the #verbosity = logging.DEBUG line in it.

Set environmental variables:

PS > \$env:PYTHONHOME = 'C:/Users/<user>/AppData/Local/Programs/Python/Python39'

Start up the FVP with a CADI server:

<path to fvp>/FVP Corstone SSE-310 Ethos-U65.exe -S -C mps3 board.v path=<path to arm vio.py folder>

Configure the debugger inside IAR:

Open the project Options, by clicking on the root file in the Workspace and then selecting it from the Project menu item. (Project > Options)

Select the Debugger in the Category list and select CADI as Driver on the Setup tab.

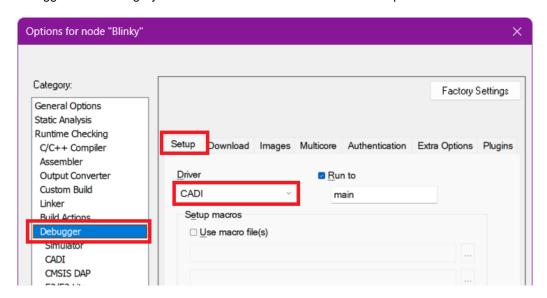


Figure 14: IAR EW: Selecting Debugger



You can select the desired CADI server in the CADI Category if there are more than one you wish to use. Otherwise, it can be left empty.

To run the debugger click on the "Download and Debug" button. The application will be automatically loaded to the model by the debugger.

8.4 Run - Terminal

1. Download arm_vio.py, like the following:

PS > wget https://github.com/ARM-software/AVH/raw/main/interface/python/arm_vio.py -OutFile arm_vio.py Then set verbosity = logging.DEBUG in it.

2. Set environmental variables to run the example:

PS > \$env:PYTHONHOME = 'C:/Users/<user>/AppData/Local/Programs/Python/Python39'

3. Execute the Example with the following command:

PS > <path_to__fvp>/FVP_Corstone_SSE-310_Ethos-U65.exe <path_to_out>/Vio.out -C mps3_board.v_path=<path_to_arm_vio.py_folder>



The VIO example might not work with newer Python versions. To run the example use version Python3.9.x.

9 Attachments

9.1 Blinky example tree

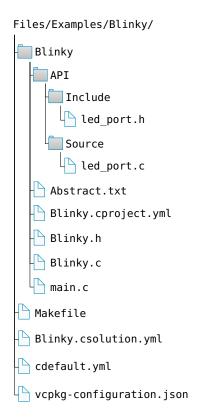


Figure 15: Blinky examples folder structure

9.2 Vio example tree

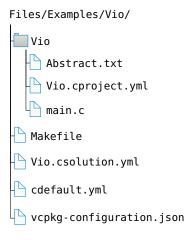


Figure 16: VIO examples folder structure