Micriµm

STM32F429II-SK Example Projects for µC/OS-III

PROJECT INSTRUCTIONS

PRODUCTS AND VERSIONS REFERENCE

MCU			
Manufacturer	**Family**	**Part Name**	**Architecture**
IAR	STM32F4XX	KSK-STM32F429II-JL	ARM-Cortex-M4
IDE			
IDE Name		**Version**	
IAR Embedded Workbench for ARM		6.70.1	
Keil µVision 5		5.0.5.15	
Atollic TrueSTUDIO for ARM Pro		4.2.0	
MICRIUM			
Micrium Product		**Version**	
µC/CPU		1.29.02	
µC/LIB		1.37.02	
µC/OS-II		2.92.09	
µC/OS-III		3.04.01	

LOADING & RUNNING A PROJECT TO THE BOARD

[WARNING]: Make sure to open the project using the mentioned IDE(s) version or later.

IAR Embedded Workbench

1. Click on File→Open→Workspace…
2. Navigate to the directory where the workspace is located:
   $\Micrium\Software\EvalBoards\ST\STM32F429II-SK\uCOS-III\IAR\uCOS-III.eww
3. Click Open
4. For safety, clean the project by clicking on Project→Clean (if available).
5. Compile the project by clicking on Project→Make. 0 Warnings, 0 Errors.
6. Have the board connected via J-Link into the board using the J-Link Port **before** downloading the project to the board.
7. Download the project to the board by clicking on Project→Download and Debug.
8. Run the project by clicking Debug→Go. To stop the project from running click on Debug→Stop Debugging.

Keil µVision5

1. Click on Project→Open Project…
9. Navigate to the directory where the workspace is located:
   $\Micrium\Software\EvalBoards\ST\STM32F429II-SK\uCOS-III\KeilMDK\uCOS-III.uvproj
2. Click Open
3. For safety, clean the project by clicking on Project→Clean Targets.
4. Compile the project by clicking on Project→Build Target. 0 Warnings, 0 Errors.
5. Have the board connected via J-Link into the board using the J-Link Port **before** downloading the project to the board.
6. Download the project to the board by clicking on Debug→Start/Stop Debug Session.
7. Run the project by clicking Debug→Run. To stop the project from running click on Debug→Start/Stop Debug Session again.

Atollic TrueSTUDIO

1. Click on File→Import…
2. Select Existing Projects into Workspace
3. Navigate to the directory where the workspace is located:
   $\Micrium\Software\EvalBoards\ST\STM32F429II-SK\uCOS-III\TrueSTUDIO
4. Click OK then Finish
5. For safety, clean the project by clicking on Project→Clean Project.
6. Compile the project by clicking on Project→Build All. Project Builds successfully.
7. Have the board connected via J-Link into the board using the J-Link Port **before** downloading the project to the board.

8. Download the project to the board by right-clicking inside the project directory and selecting "Debug as→1 Embedded C/C++ Application.
   ▪ Select the appropriate interface inside the Debugger tab. (If Needed)

9. Run the project by clicking Run→Resume. To stop the project from running click on Run→Terminate.