Freescale Semiconductor

User Guide Rev. 1, 03/2015

How to create copy of KSDK example in KDS

by: Iva Dorazinova script in Perl was written by Anthony Huereca

To do this procedure is needed the script, which creates Anthony Huereca and bat file created by me. Thanks to it is possible to create copy of any example which is based on KSDK. This script allows to work with real copy of KSDK example, which is choosen. It can be called like working copy. It is possible to edit any example and build on this demo user's own application.

It is also much easier than e.g. creating new MQX project, which is quite lengthy process – always must think of correct settings paths, including libraries etc. In this situation is everything copyied (compiler settings, linker, preprocessor...)

First of all is describe the utilization of the script. The script renames the original name of the demo to new one. So, user gets full-fledged copy.

The main essence of the matter is that the script must be in location with other examples.

E.g. $C:\Freescale\KSDK_1.1.0\demos$ or

 $C:\Freescale\KSDK_1.1.0\rtos\mgx\mgx\examples$

There is described whole procedure with MQX example under KSDK.

Example is demostrated on FRDM-K64F.

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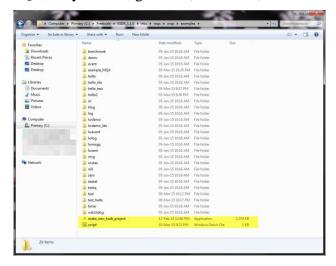
Editing the script

Importing scripts

Copy the script make_new_ksdk_project.exe and script.bat to

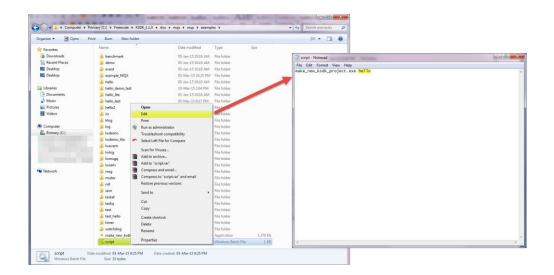
 $C:\Freescale\KSDK_1.1.0\rtos\mgx\mgx\examples$ in case MQX example.

For creating demo without MQX, only KSDK, go to C:\Freescale\KSDK_1.1.0\demos



Editing the script

The script is default set for copying hello project, so - in case other project, edit the parameter in bat file $\mathbf{script.bat}$



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Executing script

After that, execute the **script.bat** and type the name of new project.

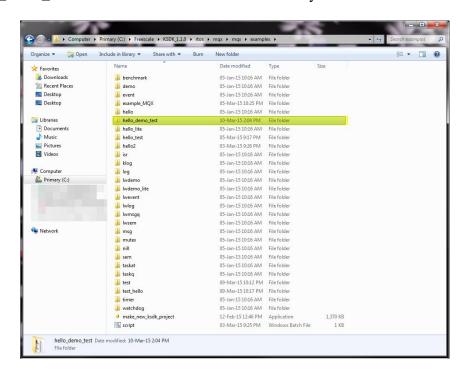
NOTE: the name cannot be the same as example name.

```
C:\Freescale\KSDK_1.1.8\rtos\mgx\mgx\examples\make_new_ksdk_project.exe hello
Tool to create a new project based on the hello project
New project name: hello_demo_test
Creating new project hello_demo_test

Project hello_demo_test successfully created. Press Enter to exit.

-
```

The demo hello_demo_test is successful created. It is immediately seen in destination folder.



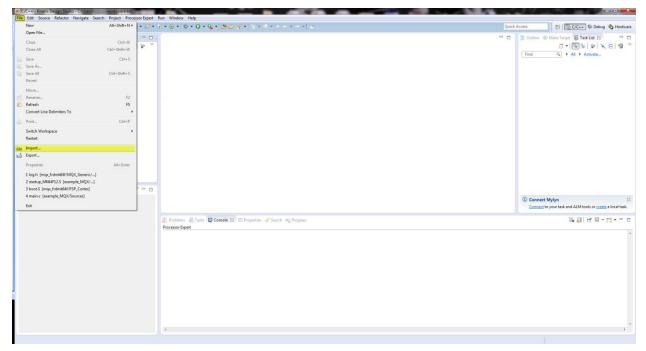
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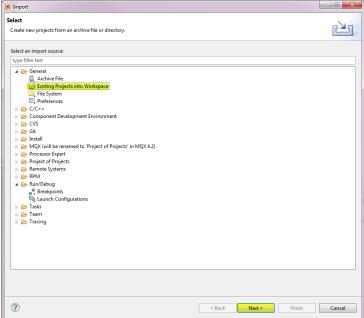
Importing new project to KDS

4

Importing new project to KDS

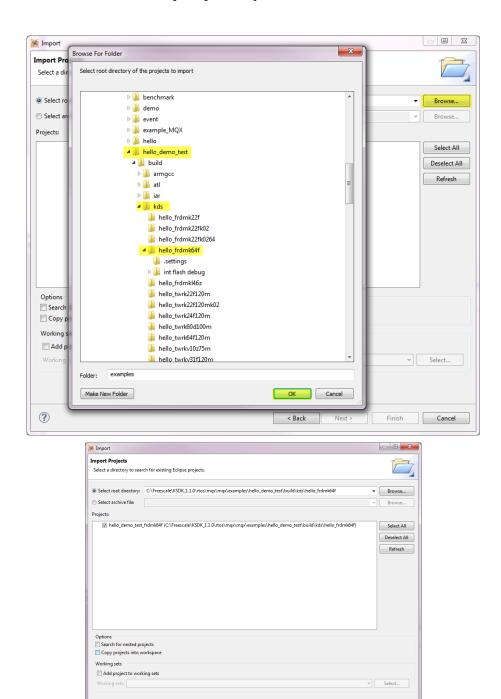
Now, import the created demo to KDS.





Find the demo, which is newly created.

Go to $C:\Freescale\KSDK_1.1.0\rtos\mgx\mgx\examples$ or $C:\Freescale\KSDK_1.1.0\demos$



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Finish Cancel

?

Building the libraries

Building the libraries

After these steps is important to think of libraries, which the MQX project needs.

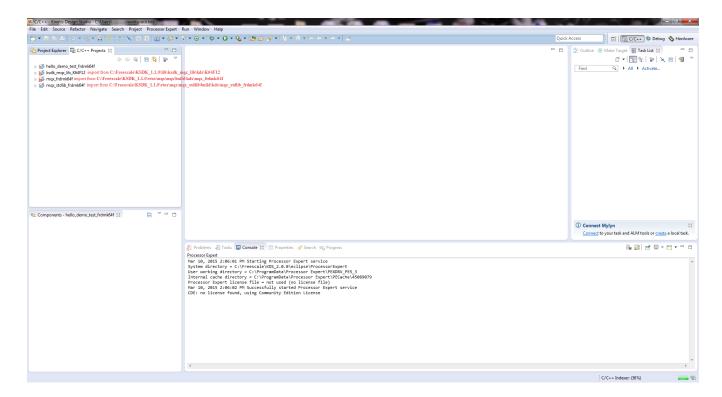
Definitely, there are ksdk_mqx_lib_K64F12

C:\Freescale\KSDK_1.1.0\lib\ksdk_mqx_lib\kds\K64F12

mqx_frdmk64f

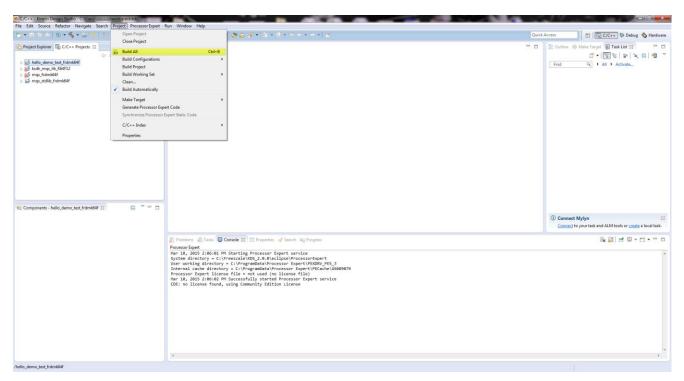
 $C:\Freescale\KSDK_1.1.0\rtos\mqx\mqx\build\kds\mqx_frdmk64f$

mqx_stdlib_frdmk64f

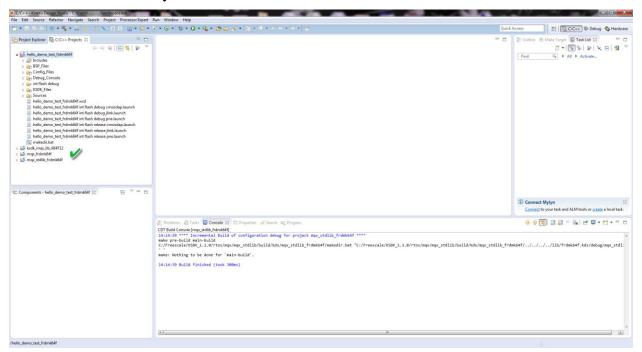


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Go to Project, Build All.



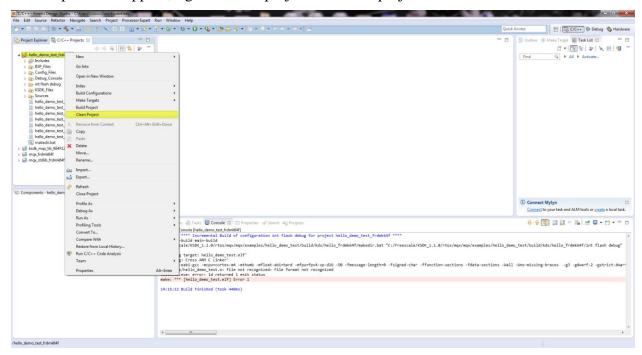
Libraries are successfully builded.



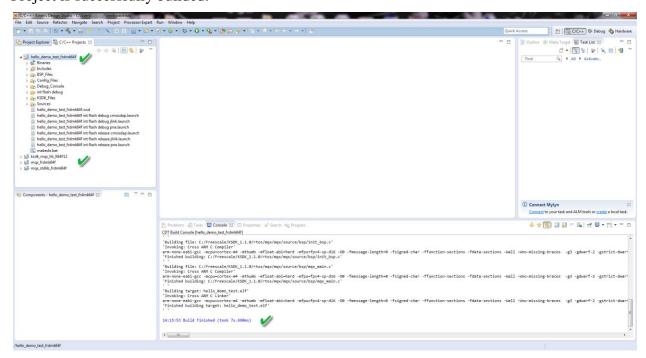
Building project

Building project

If some problems appear, right click on project and clean project.



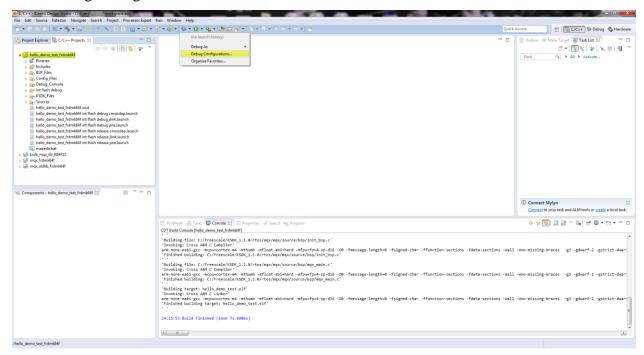
Project is successfully builded.



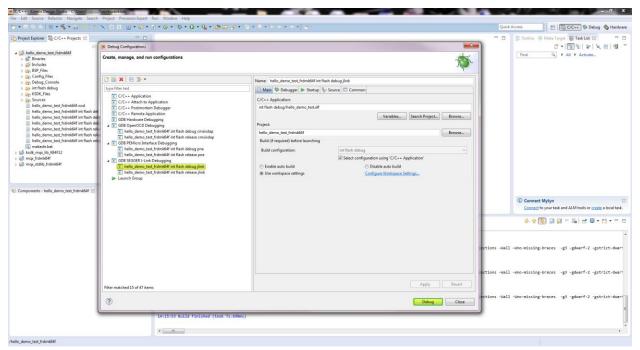
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Debug configuration

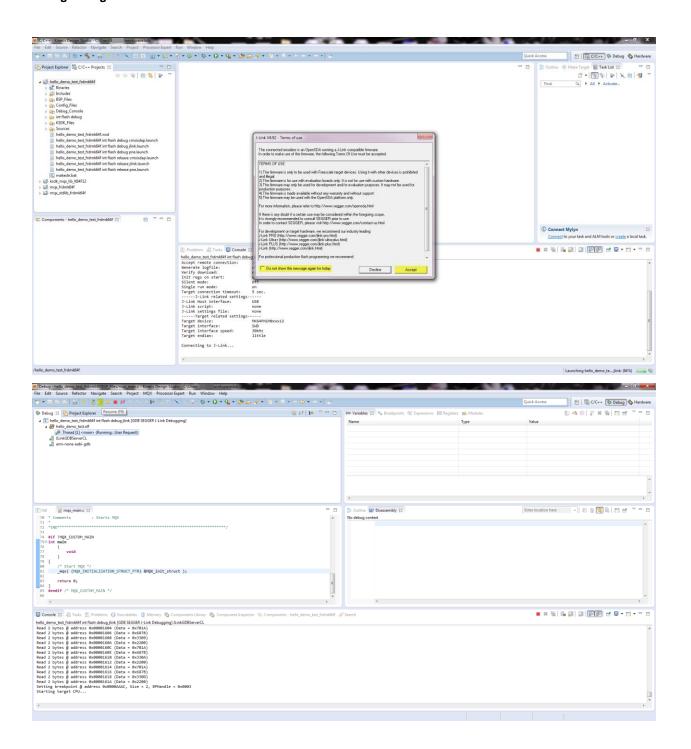
Go to Debug Configurations.



Choose Interface Debugging.



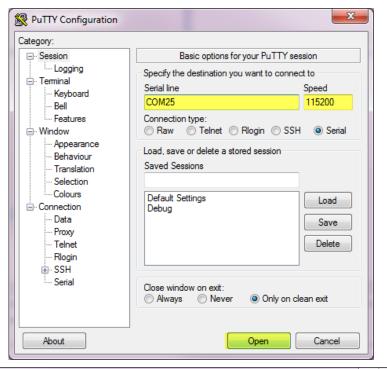
Debug configuration

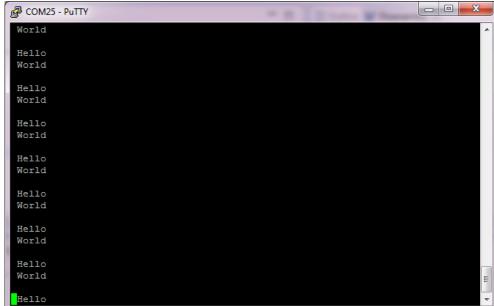


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Output in PuTTY

Set session in terminal emulator. Especially serial line with correct port number and speed.





Useful links

Useful links

Create new KSDK Projects

https://community.freescale.com/docs/DOC-102547

How To: Create a New MQX RTOS for KSDK Project in KDS

https://community.freescale.com/docs/DOC-103405

Writing my first KSDK Application in KDS - Hello World and Toggle LED with GPIO Interrupt https://community.freescale.com/docs/DOC-103288

Segger J-Link Firmware for OpenSDAv2

http://mcuoneclipse.com/2014/04/27/segger-j-link-firmware-for-opensdav2/

KDS User Guide

 $\frac{http://www.freescale.com/files/microcontrollers/doc/user_guide/KDS200UG.pdf?fpsp=1\&WT_TYPE=Users\%20Guides\&WT_VENDOR=FREESCALE\&WT_FILE_FORMAT=pdf\&WT_ASSET=D_ocumentation\&fileExt=.pdf$

Documentation to KDS

 $\underline{http://www.freescale.com/webapp/sps/site/prod_summary.jsp?code=KDS_IDE\&nodeId=015210}\\ \underline{1E8C1EB4\&fpsp=1\&tab=Documentation_Tab\#nogo}$

Documentation to KSDK

http://www.freescale.com/webapp/sps/site/prod_summary.jsp?code=KINETIS_SDK&nodeId=0 152101E8C1EF7&fpsp=1&tab=Documentation_Tab#nogo

Documentation to MQXTM RTOS for Kinetis SDK

http://www.freescale.com/webapp/sps/site/prod_summary.jsp?code=MQX-RTOS-FOR-KINETIS-SDK&nodeId=01521060795BB6&fpsp=1&tab=Documentation Tab#nogo

Binary (and S19) Files for the mbed Bootloader with Eclipse and GNU ARM Eclipse Plugins

http://mcuoneclipse.com/2014/04/20/binary-files-for-the-mbed-bootloader-with-eclipse-and-gnu-arm-eclipse-plugins/

OpenSDA Update Instructions for Freescale Freedom Development Boards for Windows 8.1 and Linux http://www.element14.com/community/docs/DOC-65460/l/opensda-update-instructions-for-freescale-freedom-development-boards-for-windows-81-and-linux

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