Setup of the CCS-Project: qspi-flash-writer-reloaded

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# Introduction

You can use this document as an example, to setup new CCS Projects.  
Also it is the documentation for the CCS-Project qspi-flash-writer-reloaded.

# Change Log

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| --- | --- | --- | --- | --- |
| **Version** | **Date** | **Editor** | **Description** | **Pages /**  **Chapter** |
| 1.1 | 29.10.2013 | Heim | Initial Revision | all |
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# Use TI Compiler

Reason: GNU for A15 core doesn’t work:   
TI known Problems: Code from reset vector to main() is missing.   
Solution for “reset vector to main()” at other VH28 projects with GNU:

* CA8.ccspoject (S11\_APPL) uses av\_bios
* SBL.ccspoject (S11\_SFBL) uses special ASM-Code.

# Step by Step creating new CCS Project

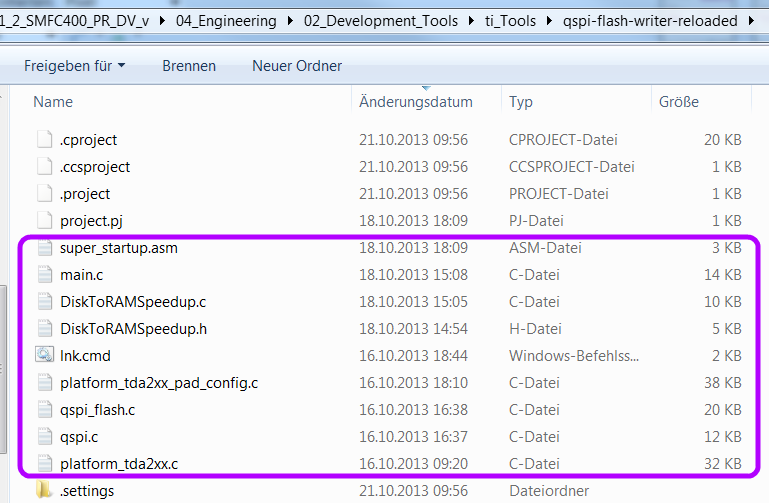
## Create wizard

First create a new CCS project within the folder (Location): *\qspi-flash-writer-reloaded .*

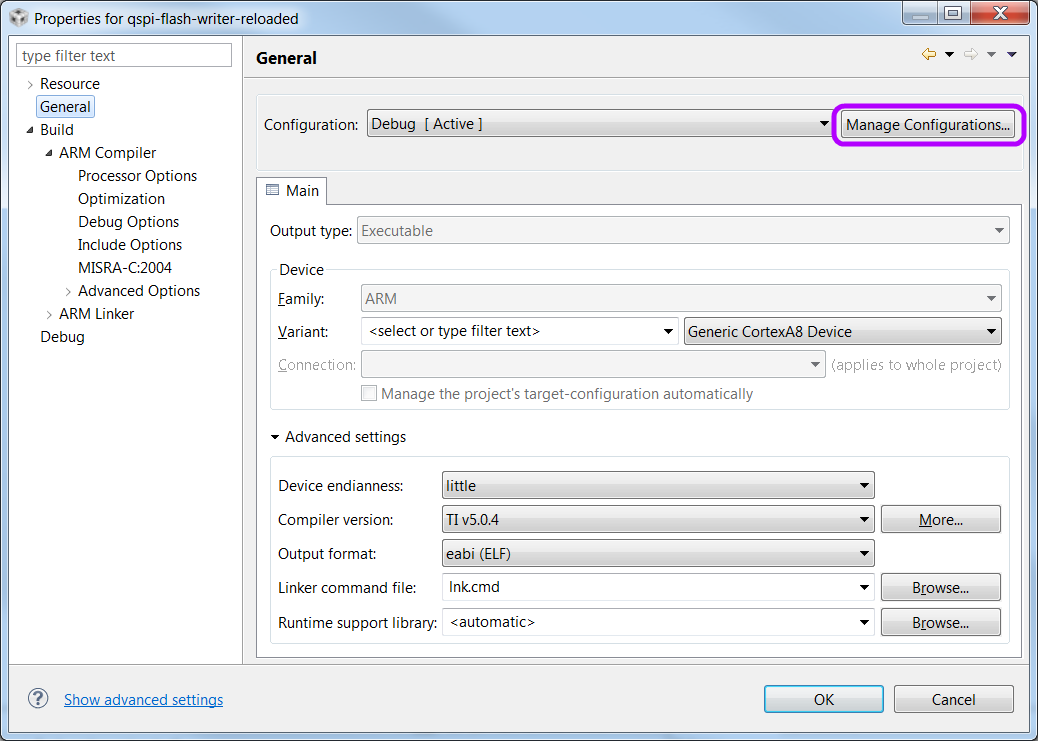
Project name here also is “qspi-flash-writer-reloaded”.

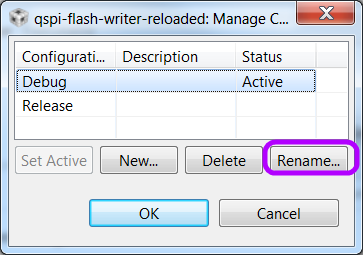
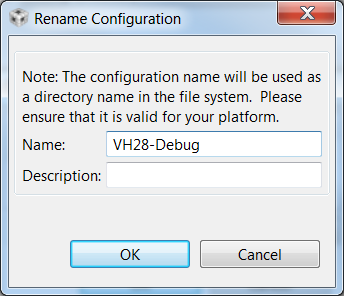
|  |  |
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|  | Pulldown:  Use  **Generic CortexA8 Device** for our MPU CortexA15.  At Conti don’t use specific VH28 entries circled above! At normal use Generic Cotex A8.  At SBL (Secondary Bootloader) DM8148 is used.  Responsible Persons: Colin Ward and Hermann Brugger.   Don’t install Chip Support Libraries to get these specific VH28 entries. We don’t use them. |

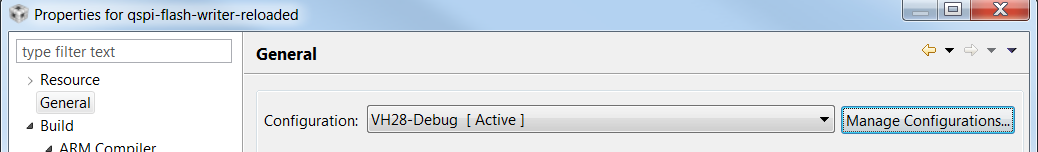
## Copy the Source files to the directory:



## Rename output folder to VH28\_debug

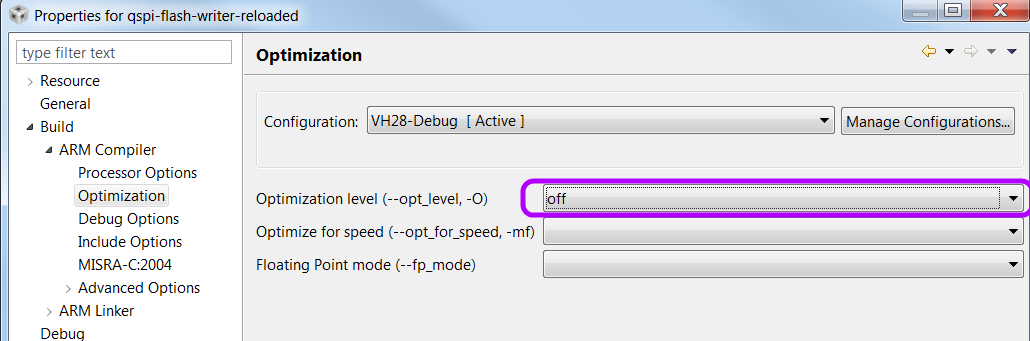


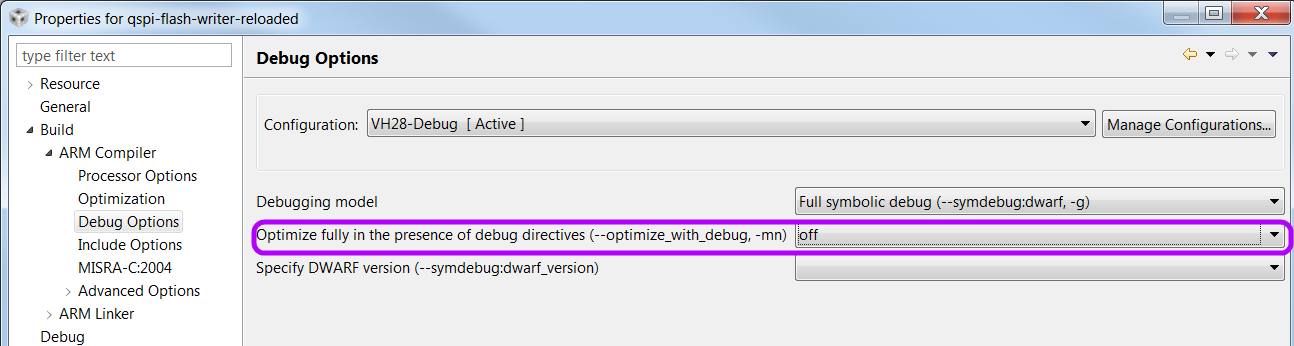
 



**Attention: use underscore “VH28\_Debug”!**

## Switch off optimization

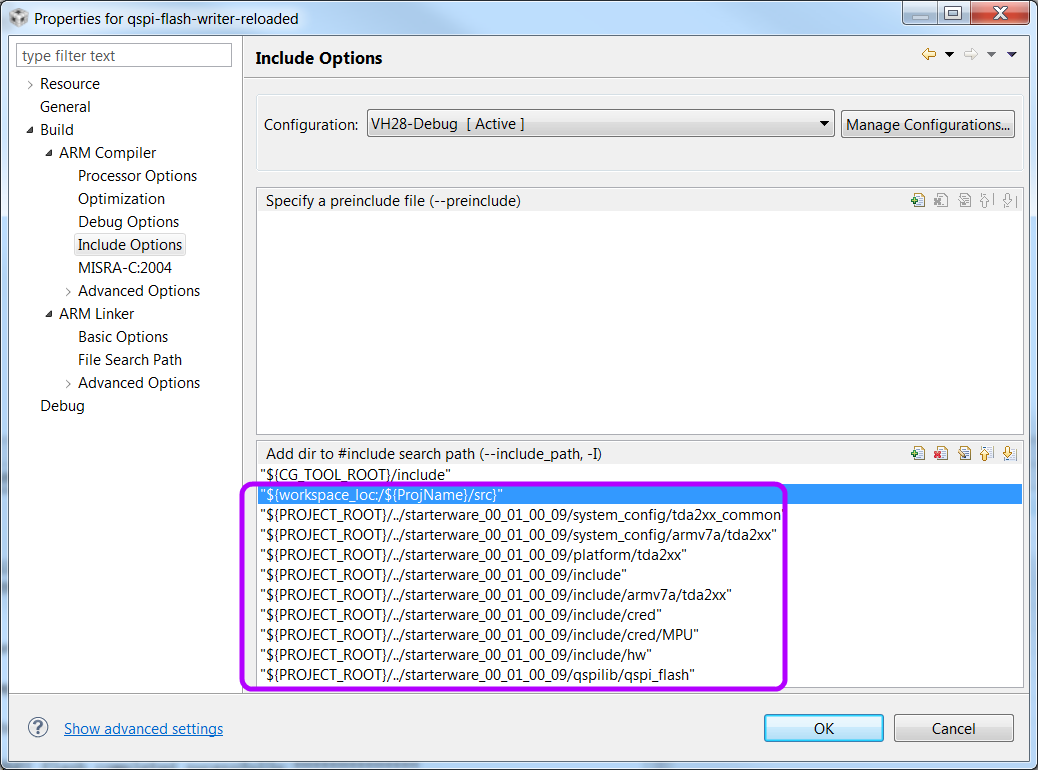




## Add include paths for \*.h-files

The project here uses \*.h-files from starterware, that’s special.   
Add only necessary paths, you need e.g. "${workspace\_loc:/${ProjName}/src}".

Add following include paths for all \*.h-files.



"${workspace\_loc:/${ProjName}/src}" "${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/system\_config/tda2xx\_common"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/system\_config/armv7a/tda2xx"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/platform/tda2xx"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/include"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/include/armv7a/tda2xx"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/include/cred"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/include/cred/MPU"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/include/hw"

"${PROJECT\_ROOT}/../starterware\_00\_01\_00\_09/qspilib/qspi\_flash"

## All other values leave on default

# Specifications

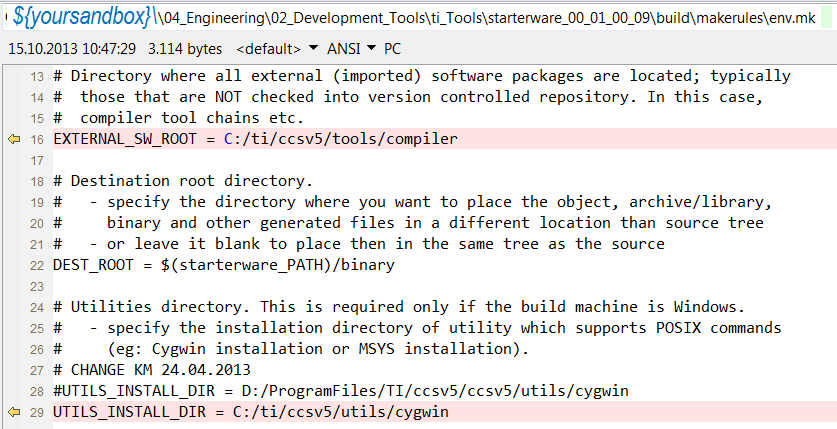
**Beginning situation, how it has been done in the past:**Within the actual MKS the folder **no CCS-Project existed:**

*${yoursandbox}\04\_Engineering\02\_Development\_Tools\ti\_Tools\qspi-flash-writer-reloaded*

There was only a main.c, an \*.out-File, linker-Command-Files and a makefile within this folder.  
These files only was MKS archived Files.  
Building-Process has been done within *\starterware\_00\_01\_00\_09\build\tools\flashtools\qspi\_flash\_writer\*,  
by command line: “>gmake PLATFORM=tda2xx CORE=m4"

After modifying main.c you had to copy it to *\starterware\_00\_01\_00\_09\tools\flashtools\qspi\_flash\_writer\*,and build it there.

Before you could do this, you had to do some preparation:

* modify env.mk to correct paths like installed on your computer:  
  
* Add following paths to your computers environmental variables (Right click ”My Computer”->Properties->”Advanced system settings”->”Environment Variables”):   
  ***C:\ti\ccsv5\utils\cygwin; C:\ti\ccsv5\utils\bin***
* If still not work, refer to SW-userguide starterware: *C:\ti\starterware\_00\_01\_00\_09\docs\TDA1Mxx\_TDA2xx\_StarterWare\_UserGuide.pdf*

How to build, step by step

* Open DOS-window : start cmd.exe
* >cd D:
* >cd *${yoursandbox}\04\_Engineering\02\_Development\_Tools\ti\_Tools\starterware\_00\_01\_00\_09*
* > set ROOTDIR=*D:/${yoursandbox}\04\_Engineering\02\_Development\_Tools\ti\_Tools\starterware\_00\_01\_00\_09*
* >cd *build\tools\flashtools\qspi\_flash\_writer*
* > gmake PLATFORM=tda2xx CORE=m4

**Target situation:**Replace complete the content of the MKS folder. Generate a CCS-Project with every source files there.*${yoursandbox}\04\_Engineering\02\_Development\_Tools\ti\_Tools\qspi-flash-writer-reloaded*

It should be possible to “Import existing project” with CCS and do work as usual with the new CCSproject.