



Readme:

MyOS

Downloads

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1 Introduction

This documentation describes the content of Software downloads in context of the Presentation
“MyOS - Kochbuch für ein Mini-Betriebssystem,
C-Implementierung eines eigenen Kernels auf dem Cortex-Mx”
held on ESE-Kongress 2015.

The download provides C and Assembler Resources as a starting point to build your own
Operation System Kernel on a μ Controller based on the CORTEX-Mx Architecture.

Download link: www.microconsult.de/MyOS

The resource files might be easily adopted to different development environments and different
controller vendors and types.

The current version of download uses ARM μ Vision V5 and Infineon XMC4400 controller.
An initial version for IAR environment was created by assistance from IAR and will be provided
for download soon. Same applies to a Cortex-M0 version.

If you did like to get informed on updates please send a short e-mail to:






MyOS@microconsult.de










2 Project Structure

The download provides a stepwise approach so it starts with the simplest realization and stepwise adds further functionality.

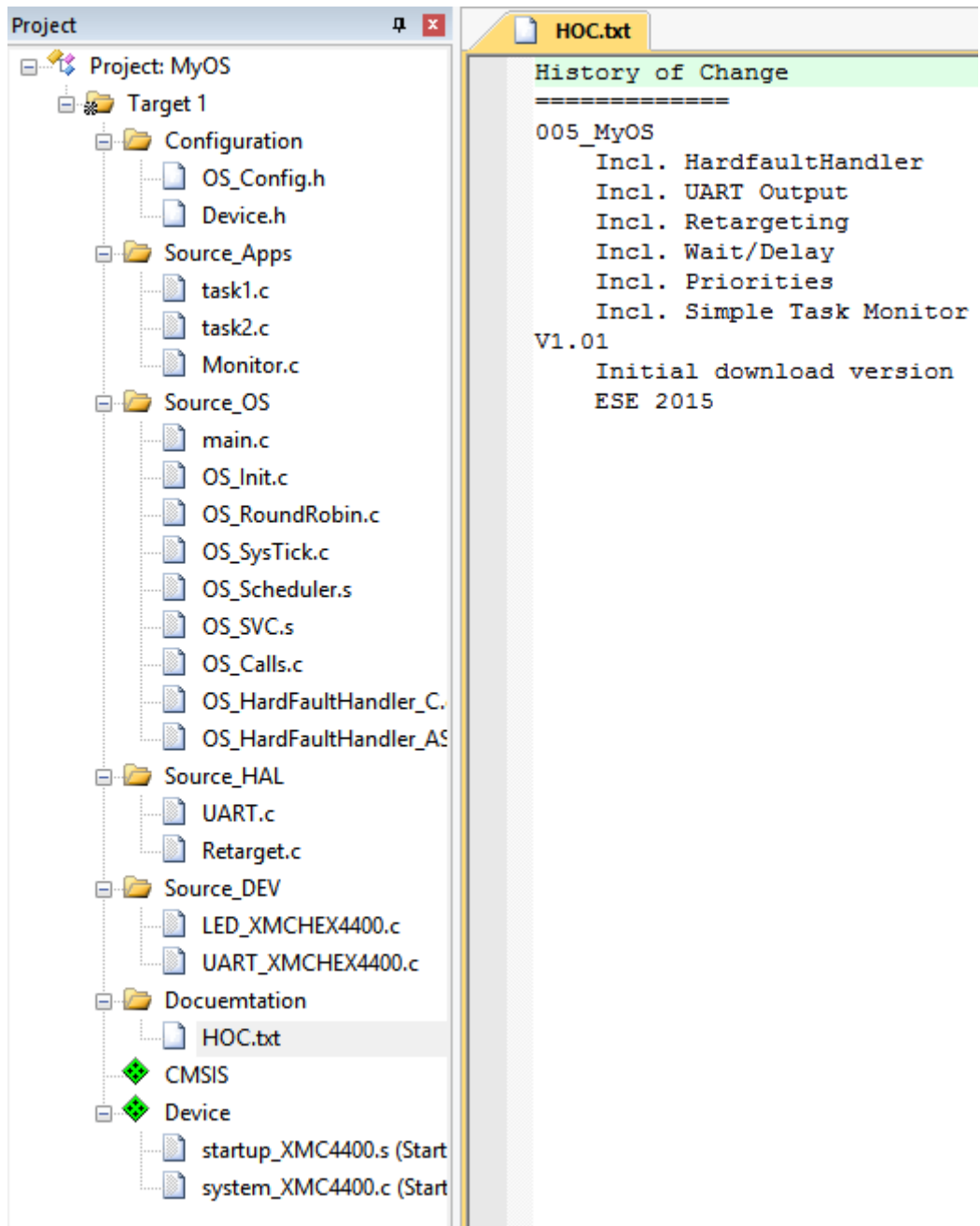
The download currently contains 5 steps (that are going to be increased soon).

The files structure is comprised from following steps:

 001_MyOS_V103	001_MyOS
 002_MyOS_V103	Simple version
 003_MyOS_V103	002_MyOS
 004_MyOS_V103	Incl. Hardfault-Handler
 005_MyOS_V101	Incl. UART Output
	Incl. Retargeting
	003_MyOS
	Incl. Wait/Delay
	004_MyOS
	Incl. Priorities
	005_MyOS
	Incl. Simple Task Monitor

 RTE	Source_Apps
 Source_Apps	Contains Example Task Sources (flashing LEDs)
 Source_DEV	Source_DEV
 Source_HAL	Contains all device specific sources to ease migration to other controllers
 Source_OS	Source_HAL
 _CleanUp.bat	Contains sources to of the Hardware abstraction layer
 HOC.txt	Source_OS
 MyOS.uvoptx	Contains sources of the MyOS kernel
 MyOS.uvprojx	_cleanUp.bat
	Is a script that removes all generated object and listing files after building the project to save space.
	HOC.txt
	History of Change file to keep track of versions.
	MyOS.uvotx and MyOS.uvprojx
	The μ Vision V5 project files

3 Project Layering





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