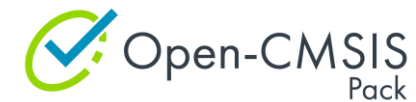


Open-CMSIS-Pack

Technical Project Meeting 2023-04-18

This meeting is recorded !



Agenda

- Welcome
- Generating CMSIS-Packs for Middleware
- Issues in discussion (for next week)
- CMSIS-Toolbox 1.6.0 (FYI)
- Wrap Up

Generating CMSIS-Packs for Middleware

How to create scalable software packs
to maximize software re-use

- <https://github.com/Open-CMSIS-Pack/SW-Pack-HandsOn>

Issues in discussion (not reviewed)

- [csolution] change define to key:value pair [#843](#)
- [csolution] .cdefault.yml, map file [#841](#)
- [csolution] add support `*` in `for-context` [#840](#)
- [csolution] review support for MVE instructions [#834](#)
- [csolution] add define to linker script preprocessing [#833](#)
- [csolution] add `gendirs:` node to csolution, cproject, clayer [#832](#)
- [csolution] add schema version to yaml input files [#819](#)
- [csolution] use of environment variables in yaml nodes referencing path or file [#820](#)
- [csolution] simple and consistent ./out directory structure [#821](#)
- [csolution] Handling of CMSE_Lib.o in TrustZone projects [#826](#)

Specifying `contexts` (csolution, cbuild) [#822](#)

- [cbuild/csolution] command line: specifying contexts
 - drop configuration, as configuration = context without <project>
 - default: [#823](#)
 - if no context is specified use the 'first' <build-type> specified
 - multiple = `-c <contextA> -c <contextB>` [#823](#)
 - refine: options to the right may replace previously specified context(s)
 - all = `-c /--context *`
 - context = <project> followed by any order of ([#825](#))
 - `+<target-type>`
 - `.<build-type>`
- IDE *Context Manager* - multi-project build [#824](#)
 - Matrix of: selected projects
 - each project with list of selected target-types
 - each target-type with single build-type

CMSIS-Toolbox release 1.6.0

<https://github.com/Open-CMSIS-Pack/cmsis-toolbox/releases/tag/1.6.0>

- **Build Invocation Utility (cbuild)**
 - fixed: cbuild throws an error with the project having no buildType
 - added --toolchain option and wildcard configuration support
 - disable auto pack dependencies installation
 - fixed: cbuild output binaries generation path
 - extended release artifacts for darwin-arm64 & windows-arm64 configuration
 - avoid suppressing messages from cbuildgen
- **Build Manager**
 - updated cbuild utility v1.6.1
 - added support for Cortex-M85 for GCC toolchain
 - added tests for IAR toolchain
- **Project Manager**
 - added project and configuration nodes into *.cbuild-idx.yml
 - updated default output name
 - updated schema allowing '-' character in component vendor name
 - generate regions_*.h file from memory tags
 - fixed: use XDG_CACHE_HOME as default pack root for macOS
 - fixed: output access sequence
 - fixed: check file instance version before creating config base files

Wrap Up

Instances of meeting with focus on software pack's content topics

- Bi-weekly (every two weeks) pack content topics:
 - **2. May:** Structure of Device Family Packs (DFP) and Board Support Packs (BSP)
 - **16. May:** CI test process for validation of reference applications

CMSIS-Toolbox:

- [1.6.0](#) April 18th 2023 - mainly bug fixes
- 2.0.0-dev0 end of April - breaking changes
- 2.0.0-dev1 mid of May
- 2.0.0 release June 2023

Next Open-CMSIS-Pack meeting: 25th Apr. 2023 @ 16:00 CET (15:00 UK)

- About: Review of technical issues with focus on 2.0.0 issues

Thank you

