





# Agenda

- Activities from last two weeks
- Progress on Project Manager
- Progress on Complex Reference Software
- Progress on `cpackget`
- Blog Post
- Wrap Up decide next meeting



### Activities from last two weeks

### New issues:

- CMSIS-Pack conditions:
  - CMSIS-pack conditions: is the spec clear enough? (#56)
  - only 1 condition per component ? (#57)
- CMSIS-Pack file attribute "copy" not documented (#58)
- Common message format for error/warning/info (<u>#59</u>)
- CMSIS-Pack spec : more hyperlinks (#61)



## Project Manager (projmgr) – Progress (Daniel)

#### Implemented features:

- Automatic implicit context generation by combining projects, build-types and target-types
- for-type and not-for-type handling (include/exclude components/groups/files mechanism)
- defines, undefines, add-paths and del-paths at solution/project level
- Enhanced component selection considering the "defaultVariant" attribute
- Extended YAML parser validation and reworked errors/warnings

#### Suggestion:

Add a degree of freedom to (build)-types to handle a wider number of variable combinations

#### Open question:

What's the best way to describe project interdependencies?

#### Latest binaries:

https://github.com/brondani/devtools/tree/mvp-prototype/tools/projmgr/bin

#### - type: target options: # Generated permutations: - option: CM0 # CM0 BE Release device: ARMCM0 # CM0 BE Debug - option: CM3 # CM0 LE Release device: ARMCM3 # CM0 LE Debug type: endianess options: # CM3 BE Release # CM3 BE Debug - option: BE # CM3 LE Release - option: LE type: config # CM3 LE Debug options: - option: Release - option: Debug

.01 01110010

.01 01100100 00100000 01100101 0110

30100000 01110100 01101111 00100000

[11] 01101000 01100101 01110010 011

01100101 01110010 01100001 01110100 01

110110 01100101 01110010 01101000 0110

### Complex Reference Software

- ST (Frederic) worked on a private repository
  - Existing ST software stack described as CMSIS-Packs
  - MDK projects for 3 contexts for each of the two boards
  - => Status: Successful build + execution validated on one board
- Arm (Daniel) works on reproducing these builds
  - Mapping workspace of projects to the new yml format
  - Using 'projmgr' to generate cprj files and CMSIS-Build to build the images
- Gap analysis: (ongoing)
  - Pre- / Postbuild commands including:
    - File reference into Pack directory
    - File references across projects



## Progress on 'cpackget' (Charles)

Major changes:

Separation of concern between cpackget and cbuildgen:

- 'cpackget' determines the url for download a pack version
  - Based on packID, index.pidx, latest pdsc file and local packs
- 'cbuildgen' is only concerned with installed packs
  Replace 'cp\_init.sh'
- \$cpackget index <url>
- Demo
- Digital Signatures for CMSIS-Packs



### Blog Post – Open-CMSIS-Pack

- Open+CMSIS+Pack+Blog+Post+Dec+2021
- 6 months into the project ...
- Please review and provide your feedback in case you have any comments or objections
- Publishing is targeted for this Thursday December 9th 2021



# Wrap Up

- Action all:
  - suggest agenda points ahead of the next meeting
- Proposal: X-mas / New Year break
  - First meeting in 2022 on Tuesday 11.01.2022
  - No meetings on 21.12., 28.12., 04.01.2022
- Next Open-CMSIS-Pack meeting: 14th Dec. 2021 @ 16:00 CET (15:00 UK)





