Open-CMSIS-Pack

Technical Project Meeting 2022-03-22

This meeting is recorded !

Agenda

- Welcome

- Updates from last two weeks

- Update on 'csolution' / 'cbuild'

- Update on 'cpackget'

- Wrap Up

Updates from last two weeks

- Component Instances (#76): Proposal
- Directory Structure (#221)
- Multiple DFPs in cprj (#175)
- Ability to create standalone project (#93)
  - Adding "project_path" for a local copy of component
  - Distribution of examples / granularity of packs
- Concerns around portability/openness of solutions (#105)
- Local replica of required packs at project level (#106)
- CMSIS-Pack generator component concept Proposal (#104)
- Can we trust the compiler version in cprj? (#220)

'cmsis-toolbox' update

Latest release: [CMSIS-Toolbox 0.9.2](#) (14th March 2022)

Build Manager:

- new support for IAR compiler.
- removed source file naming limitations.
- fixed: base path of pre-include files with config attribute, AC6/GCC cpu compiler option for Cortex-M33 with FPU and no DSP.

Project Manager:

- added config files PLM.
- added pack selection support via `pack` keyword.
- added user provided linker script selection.
- added board's pack and identifier into generated `cprj`.
- updated schema for flexible vendor specific addon.
- fixed: device variant handling, component variant selection, remove invalid warning concerning processor usage.

Pack Installer:

- more verbose by default
- supports gracefully ending an installation when hitting CTRL+C.
- supports installing packs using only the pack name
- display cpackget version

'csolution'/'cbuild' progress and plans

Implementation progress table:

https://github.com/Open-CMSIS-Pack/devtools/blob/main/tools/toolbox/docs/progress.md

Plans for next release (~March 28th 2022)

- cdefault.yml handling

- defines/undefines/add-paths/del-paths at component/group/file level

- command *list boards*

- pack selection *path* handling

- fix solution translation controls keywords processing

'cpackget' progress and plans

Latest version (0.3.2):

Fixing: `cpackget` fails to list packs issue (git bash) #36

Discussion:

- Improve usability – joining pdsc and pack commands (#35)

- `cpackget` to support yml packID syntax (#33)

Plans for next release:

- Pack management behind a proxy (#38)

- `cpackget` pack list does not show local packs ? (#37)

Linaro

Wrap Up

- Issues to be reviewed during next week's call:
  - https://github.com/Open-CMSIS-Pack/Open-CMSIS-Pack-Spec/issues/23#issuecomment-1061812858
  - https://github.com/Open-CMSIS-Pack/devtools/issues/82
  - https://github.com/Open-CMSIS-Pack/devtools/issues/224

- Slides and Recording from last week's CMSIS Webinar will be in today's Meeting Notes

- Action all:
  - Your feedback on the proposals as well as the questions raised are essential

- Next Open-CMSIS-Pack meeting: 29th March 2022 @ 16:00 CET (15:00 UK)

Thank you