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Inuits@EasyBuild

2022-01-25   EUM 2022

Agenda

- Who are Inuits

- Inuits@EasyBuild

- Workflow with HPC-UGent

- me@EasyBuild

- Why EasyBuild is awesome

- Why EasyBuild isn't that awesome

- Why EasyBuild is awesome after all

- Our contribution to EasyBuild

inuits
OPEN SOURCE INNOVATORS

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Inuits@EasyBuild

- Since July 2019

- Open source is appealing

- Challenging range of skills

- University cooperation

- UGent needed extra workforce

Workflow with HPC-UGent

- Private GitHub repository `eb_inuits`

  - Issues for software installation requests submitted by researchers

  - Work-in-progress easyconfigs are pushed directly to `main` branch

  - Separate subdirectory per issue to keep things structured

- **Pull requests to central `easybuild-easyconfigs` repository for working stuff**

- Focus is typically on <u>new</u> software requests (easy updates are usually done by HPC-UGent team)

- Actual software installations done by HPC-UGent team using easyconfigs prepared by INUITS

me@EasyBuild

- Thought I had some experience with Linux

- Found out I have no experience with Linux (Makefile, CMake, pip, modules…)

- Learned a lot (install procedures, patching, 'works on my machine' approach, toolchains)

- Still don't think I have experience with Linux

I like EasyBuild (?)

<3

★ Automating mundane, difficult, unnecessary steps in installation process

★ Saves HPC administrators a lot of time

:-(

❏ I'm the one dealing with the mundane, difficult, unnecessary steps

❏ Not the easiest tool to setup & use

:-)

● Not for all kinds of users

● Stuff it does is too complex to be any easier

● I like EasyBuild Q.E.D.

Our contributions to EasyBuild

- easyconfig PRs: ~210 merged PRs in total to date
  - Pavel (@Darkless012): 123 (since Aug'19)

  - **Denis (@deniskristak): 40 (since Oct'20)**

  - Jakub (@zarybnicky): 30 (since Sept'20)

  - Filip (@ItIsI-Orient): 17 (since Jan'21) + 10 currently open

- easyblock PRs: 13 merged

- framework PRs: 3 merged (incl. initial support for easystack files)

Thank you

If you are interested in cooperation with Inuits, please let me know

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