

Real-stuff studies

The intention with this is to review ongoing industrial projects in the computer industry with respect to concepts we have reviewed in the course. You will study one article at your choice in teams of two people (for example the lab groups) and present a 10-minute presentation to be given either on Monday October 14 (10-12) or Wednesday October 16 (10-12).

I have collected the following state of the art articles for you to choose between. They are in the folder called Real stuff studies in the Files folder.

- Intel Knights Landing architecture (Knights-landing.pdf)
- Samsung MX3 architecture (Samsung.pdf)
- Spectre and Meltdown security vulnerabilities (Spectre_Meltdown.pdf)
- The Tensor Processing Unit (TensorProcessorUnit.pdf)
- The Volta architecture (Volta.pdf)
- Next generation SkyLake architecture (NG_Skylake.pdf)
- ARM big LITTLE architecture (ARM_big:LITTLE.pdf)
- Accelerator architectures (Accelerator.pdf)

It is also ok to propose a topic yourself.

Task:

1. Decide together with your team member which topic you want to choose
2. By Monday October 7 at midnight at the latest, send an email to Waqar (waqarm@chalmers.se) and let him know which topic you have chosen and the names of the people in the group (2 each).
3. We will schedule your talk (max 10 minutes) and let you know by Wednesday October 9 at noon at the latest.

For each approved Real-stuff study presentation, the team members will receive 4 bonus points to be used for higher grades at the exam.

Have fun!

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