2017 ASCI Spring School on Heterogeneous Computing Systems “Assignments”
4 ECTS credit points breakdown

• Attend lectures (this week)

• Pitch presentation (on chosen topic – next slides)

• Perform 1-out-of-3 labs

• Write short report (on chosen topic – next slides)
Topics suggestions of talks

• Applications & Algorithms
  • Image processing
  • Deep learning
  • SKA
• Languages & Compilers
  • Clash
  • Halide
  • OpenMP 4
• Architectures (design)
  • CPUs & GPUs
  • FPGAs & accelerators
  • CGRAs, parameterized CPUs
  • Approximate computing
• Technology
  • In-memory computing
  • Quantum computing
Assignments

• Write a report (maximum 6 pages) – IEEE style
• Choose 2 items per topic – from presented topics preferred, or your research + 1 topic
• Motivate clearly the choice(s)
• Reason why the combination works & potential
• OR: Identify a clear “gap” in chosen topics
• Quantify your claims (as much as possible)
• At least 5/6 references
• Be adventurous in your choices, instead of choosing a well-throdden path – this impacts the grade
Grading committee

- Henk Corporaal
- Andy Pimentel
- Gerard Smit
- Todor Stefanov
- Ana Varbanescu
- Stephan Wong
Grade composition

Grade (pass/fail) based on:
• 10% presentation
• 50% paper
• 40% lab report

Deadlines:
• Presentation – Thursday June 1, 2017
• Paper & lab report – Sunday August 27, 2017

Result: Friday September 8, 2017