Seminar Projects

Seminar Projects

Goal

critically and *practically*

evaluate or compare

one or several techniques

Organisation

by

- 15 June create groups of 1 - 3 people
- 27 June project proposal (1 page max)
- 27 June - 25 July project work

  Questions? Monday 16-18 and Tuesday 15-17

  or via email

- 25 July (tent.) project presentations

Project Suggestions

- ACCEPT: https://sampa.cs.washington.edu/accept

  Install the “approximate compiler” and try to run it on some unseen benchmarks. Your report/ presentation should comment on how easy it is to get resource savings and how much you were able to achieve.

- NPiler: NPU Compiler (http://act-lab.org/artifacts/npiler/)

  Install the neural processing unit compiler and try it on some unseen benchmarks.

- Intel Power Gadget: the gadget (https://software.intel.com/en-us/articles/intel-power-gadget-20) can sample and log the power and energy with a frequency of up to 20ms.
  - use it to verify claims about energy/power savings of some technique seen
  - compare energy/power usage across different machines (to test the validity of the savings)
  - use it to measure energy on new examples and try to reduce the energy with “normal” means

Project Proposal

(1 page max, due 27 June via email)

Who project members

What short description of what you want to do

Why short explanation of the rationale

How work separation (who is doing what)

When time plan (roughly by week)

You can send me drafts for review/comments until 23 June.

If you want to use a certain tool in your project, check it out first!