Cedric Nugteren cedric.nugteren@surfsara.nl SURFsara Supercomputer Centre Amsterdam, The Netherlands

Auto-Tuning OpenCL Matrix-Multiplication: K40 versus K80

## SURF SARA

 possible by

Best-Case Matrix-Multiplication Parameters


## Conclusions

Generic OpenCL auto-tuning framework ensures portabilityFastest source-level matrix-
multiplication implementationTree visualization shows architectural and algorithm properties

4 K80's extra registers and cache yield higher efficiency (vs. K40)

