

- **FPGAs: high performance and energy efficiency**
 - Attractive platform in a cloud environment
 - Increasingly popular in datacenters (Intel Xeon+FPGA, Microsoft Catapult, ...)
- **Two obstacles to mass adoption as computing platform in the cloud**
 - Development is time consuming and requires vast hardware expertise
 - Lack of facilities to simultaneously share an FPGA, to increase device utilization

VERT: VIRTUALIZED EXECUTION RUNTIME FOR FPGA

- Design flow supporting both RTL and DSLs (no hardware expertise needed)
- Dynamic management of FPGA resources
 - Virtualization
 - Sharing
 - Protection
 - Dynamic resource allocation
- Working, end-to-end implementation @ Demo night

