



Study of frameworks to build firmware accelerator on FPGA













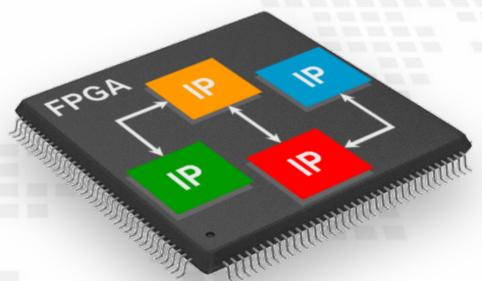
- General purpose
- Machine Learning Inference













FPGA through cloud paradigm



Use remote FPGA for rapid prototyping and development

Machine Learning Inference as a Service



Deploy inference algorithm on FPGA and access ML predictions from a remote computing resource

https://fastmachinelearning.org/hls4ml/ https://github.com/thesps/conifer https://github.com/Xilinx/Vitis-AI http://bondmachine.fisica.unipg.it/ https://indico.jlab.org/event/459/contributions/11826/ https://agenda.infn.it/event/34683/contributions/197368 https://agenda.infn.it/event/30202/contributions/168531/ https://github.com/BondMachineHQ

Build firmware as a Service



Automation of the build and load process

