

Vitis Introduction: Edge and Cloud Acceleration Workflow

Xilinx's Vitis and Vitis AI development environments are motivated by three industry trends: AI proliferation, the need for heterogeneous computing, and applications that span cloud to edge to end-point. Vitis is a comprehensive SW development, including a rich set of open-source libraries, to seamlessly build and deploy complete accelerated applications. Vitis AI, an integral part of Vitis, enables AI inference acceleration on Xilinx platforms including Alveo cards, FPGA-instances in the cloud, and embedded platforms. Vitis AI supports industry's leading deep learning frameworks like Tensorflow and Caffe, and offers comprehensive APIs to prune, quantize, optimize, and compile pre-trained networks to achieve the highest AI inference performance on Xilinx platforms. In this talk, we provide an overview of Vitis and Vitis AI development environments.