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High Performance and “Plug & Play” neural network Inference with Zebra  
on Xilinx Alveo U50 in Data Center and Edge

Zebra software for best neural network performance

**San Francisco, California:** Mipsology today announced Zebra software support for the Xilinx Alveo U50 Data Center accelerator card. Zebra is the industry’s premiere ‘plug & play’ software for accelerating AI inference compute.

Neural networks inference can now be deployed faster than ever with Zebra on the Alveo U50. The latest of the Alveo accelerator card has a small form factor and a power of just 75W. Zebra enables Alveo accelerator cards to deliver best-in-class performance replacing transparently CPU or GPU for inference.

In the field of AI, Convolutional Neural Networks (CNNs) are the computing fabric. In real data center applications, they require high compute throughput and dedicated hardware. High quality accelerator cards like the new Alveo U50 are ideally suited for CNN computing. When combined with Zebra, inference compute is accelerated quite substantially without requiring AI scientists to change anything in their network or application thanks to Zebra’s proprietary IP.

Zebra delivers a range of critical capabilities:

- The fastest inference - Zebra computes all CNNs at leading edge speed, setting a new standard for performance in data center or at the edge.
- Supports all neural networks - Zebra accelerates all the layers of any CNN NS processes the same CPU/GPU-based trained neural network with similar accuracy without any change.
- Extremely simple to use - Zebra is a “plug&play” process. Zebra conceals the FPGAs details from AI engineers and lets them enjoy faster execution.
- No changes to the software environment - Zebra users don’t have to learn new languages, new frameworks, or new tools. Zebra supports TensorFlow, PyTorch, ONNX, Caffe and MXNet. This makes Zebra usable immediately with zero effort.
- Scalable, flexible and adaptable - Zebra can replace GPUs or complement CPUs in data centers for heavy loads. Its scalability and the lower power consumption of Alveo U50 make it also ideal at the edge or just under a desk.

Zebra Software Support for Xilinx Alveo U50 Data Center Accelerator Card

“We are very pleased to have Zebra running now on the Xilinx Alveo U50. Zebra delivers better inference performance for AI neural networks. We are excited about this new board for its size, the large HBM bandwidth and ability to unlock Zebra’s performance and ease of use in data center and edge environments. All with less than 75W, no cooling required!” Said Ludovic Larzul, Founder and CEO, at Mipsology.

Mipsology plans general availability of Zebra support for Xilinx's Alveo U50 in Q4 2019. For more information visit Mipsology at the upcoming [Xilinx Developer Forum \(XDF\) 2019](#), where Zebra will be featured. XDF will be held in the Fairmont Hotel in San Jose California, October 1, 2 2019. Or visit our website at [www.mipsology.com](http://www.mipsology.com).

### **About Mipsology**

Mipsology is a groundbreaking startup focused on state-of-the-art acceleration for deep learning inference. It was founded in 2015 by a team of engineers and scientists who created a family of world-leading FPGA-based supercomputers over the past 20 years. The team devised technology to accelerate the computations of inference for neural networks and conceal the hardware to AI users.

Mipsology's Zebra is the first commercial accelerator that contains this new proprietary technology to provide high performance and ease of use.

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