(intel)

TAKE AI PERFORMANCE TO THE NEXT LEVEL

With Intel® Deep Learning Boost

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Available on 2nd Generation Intel® Xeon® Scalable Processors

EMBEDDED AI ACCELERATION

Intel® AVX-512 with Intel® DL Boost (VNNI)
1 Instruction for int8 Convolutions

Input INT8
Input INT8
Constant INT32
</Instruction 1> vpdpbusd
Output INT32

Intel® AVX-512 without Intel® DL Boost
3 Separate Instructions for int8 Convolutions

Input INT8
Input INT8
</Instruction 1>
Output INT16
Constant INT16
</Instruction 2>
Output INT32
Constant INT32
</Instruction 3>
Output INT32

DEEP LEARNING USE CASES

Image Recognition   Object Detection   Recommendation Systems   Speech Recognition

Male
Caucasian
Adult

Customers who bought this item also bought
Page 1 of 5

and more

OPTIMIZED FRAMEWORKS AND DATA TYPES**

TensorFlow   ⓦ PyTorch   mxnet

Caffe   OpenVINO   ONNX

OPTIMIZED LIBRARIES

INTEL® MKL-DNN

**This list and more frameworks are optimized.
Intel® Optimization for Caffe Resnet-50 performance does not necessarily represent other framework performance.

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30x FASTER
with Intel® Deep Learning Boost[1]

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