



# Eight-Socket Hyperscale Computing Platform from Hyve Solutions Achieves High Marks in Performance Testing

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Catalina Platform Designed for New 3rd Gen Intel Xeon Scalable Processors for Deep Learning and HPC Applications Excels in Benchmarks

FREMONT, Calif., June 18, 2020 /PRNewswire/ -- **Hyve Solutions Corporation**, a wholly owned subsidiary of **SYNNEX Corporation** (NYSE: SNX) and a leading provider of hyperscale digital infrastructures, today announced its eight-socket hyperscale platform has achieved high marks in initial performance testing on a pre-production Catalina system.

The Hyve Solutions Catalina Platform is architected to harness the capabilities of the new 3rd Gen Intel Xeon Scalable processors and designed to meet the needs of today's rapidly changing mix of deep learning (training and inferencing) and general compute workloads.

The Catalina platform showed an 86 percent increase in deep learning training with bfloat16 instructions vs fp32. The tests were performed using Tensorflow with a Resnet-50 v1.5 model and trained on the Imagenet 2012 data set.

"Catalina is primarily intended to maximize the potential of 3rd Gen Intel Xeon Scalable processors for Deep Learning and HPC applications, as demonstrated by these initial results," said Steve Ichinaga, President, Hyve Solutions and Hyve Design Solutions. "But it's also breaking new ground on fungible computing by providing a cost-effective infrastructure for AI, hyperscale compute and HPC."

"The robust performance results demonstrated by the Catalina platform are a testament to its cutting-edge

approach," said Jason Grebe, Corporate Vice President and General Manager of Intel's Cloud and Enterprise Group. "Intel is eager to see how innovative platforms like Catalina can fully leverage Intel's DL Boost suite of technologies found in the 3rd Gen Intel Xeon processors."

Announced by Intel today, the 3rd Gen Intel Xeon Scalable processors are another forward step in server computing with new features such as Intel Deep Learning Boost with bfloat16.

Statistical machine learning has grown alongside deep learning using "big fast data" to extract insights from large data sets in a market driven by developments around Artificial Intelligence (AI) and data analytics. Catalina offers a good platform for this usage as well, since it combines Xeon Scalable Gen 3 CPUs with on-board 100GbE.

"With Hyve's new Catalina platform, we no longer have to use both GPU and non-GPU based systems for our Reinforcement Learning training. We can now use a single Catalina CPU-only system for better performance and reduced cost," notes Tijmen Tieleman, CTO and co-founder, minds.ai. "We at **minds.ai** are looking forward to implementing DeepSim, our RL training platform, on this system."

Catalina implements an efficient system for hosting four-socket and eight-socket Xeon workloads and is well-suited for Deep Learning, High-Performance Computing (HPC), High Density Compute for hyperscale, large-scale analytics platforms and is a fungible platform for co-locating HPC, AI, analytics and compute.

## About Hyve Solutions

Hyve Solutions is a leader in the design to worldwide deployment of hyperscale digital infrastructures. In partnership with customers, Hyve leverages deep-seated industry experience and strong vendor partnerships to design and deliver purpose-built server, storage, and networking solutions to meet datacenter demands for today and beyond. Hyve Solutions is a wholly owned subsidiary of SYNnex Corporation (NYSE: SNX). For more information about Hyve Solutions, visit [hyvesolutions.com](https://hyvesolutions.com), email [sales@hyvesolutions.com](mailto:sales@hyvesolutions.com) or call (855) 869-6973.

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