

Principled Technologies releases study showing strong AI performance on the Stratus ztC Endurance 7100 platform

Hands-on testing shows that the Stratus ztC Endurance 7100 offers high throughput and low latency for AI image classification

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EINPresswire.com/ -- Organizations across industries are using AI to gain real-time insights from their data to accelerate the speed of business. Running CPU-based AI inference for image classification workloads requires investing in computing platforms with strong processing power to handle these demanding workloads. Principled Technologies (PT) tested the AI image classification performance of a Stratus ztC Endurance™ 7100 platform. The fault-tolerant Stratus ztC Endurance 7100 features two 4th Generation Intel® Xeon® Gold processors with 48 total cores, up to 1,024 GB DDR5 RDIMMs, and up to 38.4 TB native NVMe® storage. The platform also boasts a fully redundant hardware architecture, with customer-replaceable unit (CRU) modules that enhance serviceability and availability.



Test report: Strong performance for AI image classification workloads on Stratus ztC Endurance 7100 compute platforms

Artificial intelligence (AI) for image recognition and classification is growing fast, with one study estimating a 2024 market share of USD 2.55 billion with expectations of growth to USD 4.44 billion over the next five years.¹ With a wide range of use cases that includes everything from expediting medical diagnoses to enabling quality assurance for manufacturing and making online shopping suggestions, using AI to classify images can help organizations analyze visual data quickly to deliver the timely answers they need. For businesses seeking to improve key processes with AI-based image classification, one of the first steps is selecting server hardware that can adequately handle this computationally demanding work.

To determine its suitability for running AI inference workloads such as image classification, Principled Technologies tested a Stratus ztC Endurance™ 7100 server using a ResNet-50 image classification workload at various levels of precision. Across all three precision levels, we found that the Stratus ztC Endurance 7100 offered strong throughput and low latency for CPU-based inference, showing that it's a viable platform for AI image classification for various use cases—from those that prioritize accuracy to those that prioritize speed.

High throughput
up to 5,043 images per second at INT8 precision level*

Low latency
as low as 5.8 milliseconds at INT8 precision level*

Fault tolerant
99.999999% uptime according to Stratus®

*in PT hands-on testing

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According to the report, "To determine its suitability for running AI inference workloads such as image classification, Principled Technologies tested a Stratus ztC Endurance 7100 server using a ResNet-50 image classification

workload at various levels of precision. Across all three precision levels, we found that the Stratus ztC Endurance 7100 offered strong throughput and low latency for CPU-based inference, showing that it's a viable platform for AI image classification for various use cases—from those that prioritize accuracy to those that prioritize speed.”

The Stratus ztC Endurance 7100 platform can support a variety of use cases for AI image classification. As the report notes, “AI image classification can help speed up quality assurance in industrial manufacturing by providing an automated method to prevent subpar products from making it to market. Accelerating this portion of the manufacturing process can ultimately get products on the shelf faster to meet customer demands...No matter your specific image classification use case, choosing servers with strong throughput can help you get answers from your datasets more quickly.”

Stratus, an SGH brand under Penguin Solutions, provides high-availability, fault-tolerant computing platforms that are “simple to deploy and maintain, protected from interruptions and threats, and autonomous,” enabling customers to run mission-critical applications securely and remotely while protecting against data loss at the data center and edge, according to Stratus.¹ Stratus ztC Endurance is an “intelligent, predictive, fault-tolerant computing platform” that offers “serviceable and reliable performance for next-generation sustainable operations with 99.99999% system availability.”²

To learn more about how organizations can benefit from running AI inference image classification workloads on a Stratus ztC Endurance 7100 platform, read the full report at <https://facts.pt/KlrWE8h>.

1. “Stratus ztC Endurance Fault-Tolerant Platform Extends Connectivity to Enterprise Data Center,” accessed September 18, 2024.
2. “Stratus ztC Endurance Fault-Tolerant Platform Extends Connectivity to Enterprise Data Center,” accessed September 18, 2024.

About Principled Technologies, Inc.

Principled Technologies, Inc. is the leading provider of technology marketing and learning & development services.

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