


# Accelerate AI Efficiency, Time-to-Insight, and Content Delivery



Get leadership data center CPU performance for AI, database, networking, and HPC.

5th Gen Intel® Xeon® Scalable Processors with Intel Accelerator Engines Outperform AMD EPYC

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XEON

## Improve AI results with Intel® Advanced Matrix Extensions

### NATURAL LANGUAGE PROCESSING

Deliver better support for customers and enhance business operations with better Language AI performance<sup>1</sup>

Up to

**2.2X** Higher BERT Large performance than 4th Gen AMD EPYC

AND

### REDUCE COSTS

Up to

**41%** Lower TCO for running a BERT Large workload vs. 4th Gen AMD EPYC

### Solve Common Problems

- **Better inform** business decisions to drive revenue growth
- **Improve** customer retention and acquisition
- **Faster analyze** customer feedback and identify trends

## Boost Your HPC Performance with Intel® Advanced Vector Extensions 512

### HIGH PERFORMANCE COMPUTING

Do more for your customers and business with better HPC performance<sup>3</sup>

Up to

**83%** Higher HPC performance for running a Monte Carlo workload vs. 4th Gen AMD EPYC

AND

### REDUCE COSTS

Up to

**27%** Lower TCO for running a Monte Carlo workload vs. 4th Gen AMD EPYC

### Solve Common Problems

- **Accelerate performance** for modeling, forecasting, and predictive simulations
- **Get to market** faster
- **Explore more** scenarios with higher precision

## Deliver More Content Faster with Intel® QuickAssist Technology

### SECURE WEB CONNECTIONS

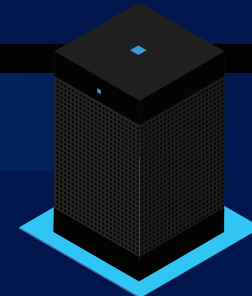
Speed Secure web connections<sup>2</sup>

Up to

**85%** Higher NGINX TLS Handshake performance per core vs. AMD EPYC

### Solve Common Problems

- **Serve up** more content, faster
- **Connect more** users without slowing down
- **More secure** and reliable traffic



## Faster Time to Insights with Intel® In-Memory Analytics Accelerator

### DATABASE

Increase productivity and speed up database performance<sup>4</sup>

Up to

# 62%

Higher RocksDB database performance vs. 4th Gen AMD EPYC

**AND**

### REDUCE COSTS

Up to

# 22%

Lower TCO for running a RocksDB database workload

**vs. 4th Gen AMD EPYC**

### Solve Common Problems

- **Run** more scenarios
- **Use** higher-precision analytics
- **Process** larger datasets

## Access Data More Quickly with Intel® Data Streaming Accelerator

### STORAGE

Overcome bottlenecks for low-latency storage systems<sup>5</sup>

Up to

# 2.5X

Higher IOPs performance

**AND**

Up to

# 60%

Lower latency vs. 4th Gen AMD EPYC for large packet sequential read

Up to

# 2.1X

Higher IOPs performance

**AND**

Up to

# 54%

Lower latency vs. 4th Gen AMD EPYC for small packet random read

### Solve common problems

- **Make** better decisions faster
- **Handle** more network traffic
- **Reduce** latency to handle growing data needs



## Want More Information?

5th Gen Intel® Xeon® Scalable processors are designed for high performance with built-in acceleration engines for each core, helping you outperform the competition.

Find out more about 5th Gen Intel® Xeon® Scalable processors at: [www.intel.com/5thgenxeon](http://www.intel.com/5thgenxeon)

Learn more about Intel® Accelerator Engines at: [intel.com/acceleratorengines](http://intel.com/acceleratorengines).

<sup>1</sup> Intel Xeon Platinum 8592+ vs. AMD EPYC 9554. As measured by performance on BERT-LARGE. See (T205) at [intel.com/processorclaims](http://intel.com/processorclaims): 5th Gen Intel Xeon Scalable processors. Results may vary.

<sup>2</sup> Intel Xeon Platinum 8592+ vs. AMD EPYC 9554. As measured by performance on NGINX TLS Handshake. See (N202) at [intel.com/processorclaims](http://intel.com/processorclaims): 5th Gen Intel Xeon Scalable processors. Results may vary.

<sup>3</sup> Intel Xeon Platinum 8592+ vs. AMD EPYC 9554. As measured by performance on Monte Carlo. See (T204) at [intel.com/processorclaims](http://intel.com/processorclaims): 5th Gen Intel Xeon Scalable processors. Results may vary.

<sup>4</sup> Intel Xeon Platinum 8592+ vs. AMD EPYC 9554. As measured by performance on RocksDB. See (D201), (T202) at [intel.com/processorclaims](http://intel.com/processorclaims): 5th Gen Intel Xeon Scalable processors. Results may vary.

<sup>5</sup> Intel Xeon Platinum 8592+ vs. AMD EPYC 9554. As measured by performance on SPDK NVMe TCP. See (N201) at [intel.com/processorclaims](http://intel.com/processorclaims): 5th Gen Intel Xeon Scalable processors. Results may vary.

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