UPGRADE YOUR DATA ANALYTICS ON CLOUDERA® WITH AMD EPYC™ PROCESSORS

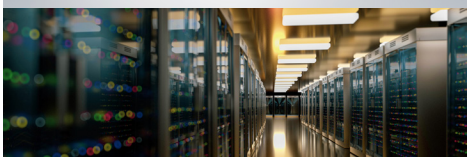
RUN SUPER FAST TRANSACTIONS & QUERIES, EFFICIENTLY WITH AMD EPYC™ PROCESSORS

Cloudera® running on AMD EPYC™ CPU-based servers empowers organizations to implement big data analytics solutions that scale as businesses grow. For cloud, IT, and data decision makers, AMD EPYC™ CPUs combined with Cloudera® deliver the right hardware on the right data platform. AMD & Cloudera® solutions enable customers to create new insights from the wealth of data they have at their fingertips on a unified, high-performance platform with security features designed into every chip.

AMD & CLOUDERA®: A JOINT APPROACH TO MODERN ANALYTICS

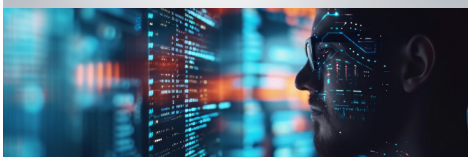
PERFORMANCE

The Right Platform with the Right Hardware



SECURITY FEATURES

Persistent Protection designed into every chip



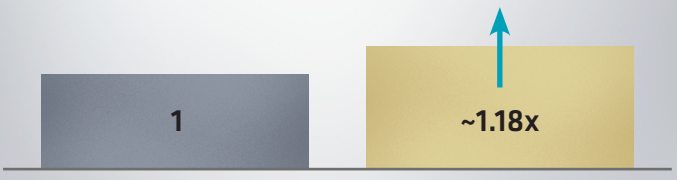
ENERGY EFFICIENCY

Streamlined Solutions to Help Achieve Sustainablity Goals

AMD EPYC™ PROCESSORS PERFORMANCE

~18% Better Throughput Performance [1]

Decision Support Benchmark on TPC-DS
(6-node cluster, SF1000 dataset)

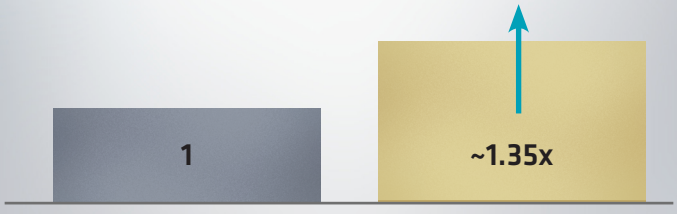


Dual Socket Intel® Xeon® Platinum 8492Y+ (32 Cores)

Single Socket 4th Gen AMD EPYC™ 9554 (64 Cores)

~35% Better Performance/$ SP5C-134

Decision Support Benchmark on TPC-DS Derivative
(Results may vary. As of 1/31/2025)

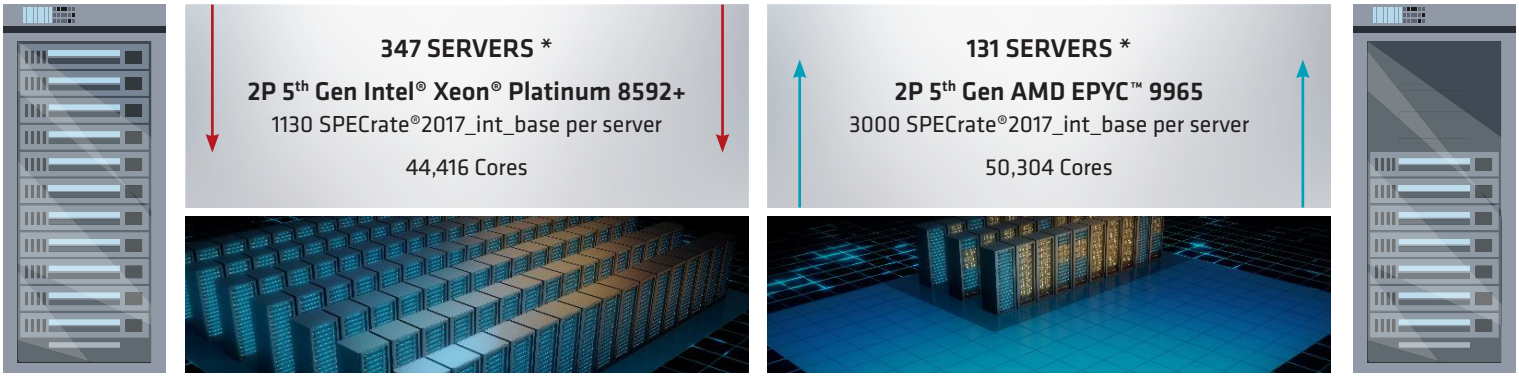


Intel® Xeon® Based Azure® E32_sv5 (32 Cores)

AMD EPYC™ Based Azure® E32_asv6 (32 Cores)

Decision Support & Query Performance Leadership

AMD EPYC™ CONSOLIDATION FOR DEPLOYMENT



~62%
Fewer Servers
Same Performance

~45%
Less Power

~44%
3-year TCO reduction

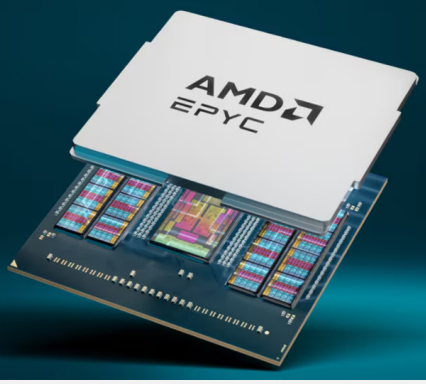
Results obtained running SPECint, may not represent performance achievable with Cloudera® workloads. See Endnote: 9xx5TCO-002A

FEATURED INDUSTRY PARTNERS

Azure · aws · cisco · DELL Technologies · Hewlett Packard Enterprise · Lenovo · SUPERMICRO

RESOURCE LINKS

- Why Cloudera + AMD
- Cloudera Data Platform on AMD-powered Dell Infrastructure
- HPE Reference Architecture for Cloudera Data Platform
- Lenovo Big Data Reference Design for Cloudera Data Platform
- Lenovo Big Data Solutions for Cloudera Data Platform



1 - https://www.amd.com/content/dam/amd/en/documents/epyc-technical-docs/performance-briefs/amd-epyc-9004-pb-cloudera-64c.pdf