

5 REASONS WHY AMD EPYC™ PROCESSORS FOR IBM CLOUD BARE METAL SERVERS

AT A GLANCE

With more cores, faster clock speeds, and higher memory bandwidth than previous generations, AMD EPYC™ processors on IBM Cloud Bare Metal Servers deliver leading performance and value for compute-intensive workloads.

1

PERFORMANCE DESIGNED FOR DEMANDING WORKLOADS

Power through heavy workloads up to 42% faster than the competition.¹ Get world-record performance for data analytics, AI and machine learning (ML), virtualization, and containerization.²

2

EXCEPTIONAL ENTERPRISE SCALABILITY

Get the flexibility you need to scale up or down for maximum business agility. Expand RAM up to 4 TB per server and up to 10 SSD drives per dual-socket server.

3

ADVANCED SECURITY FEATURES

Encrypt main memory and virtual machine (VM) memory with the AMD Secure Boot technology built into AMD EPYC™ processors.³

4

SUBSTANTIAL COST SAVINGS

With up to 128 cores in a dual-processor server, you can deploy more VMs on fewer physical servers and reduce server costs by up to 20%.⁴

5

MORE CPU CHOICES

AMD EPYC™ and IBM Cloud give you more freedom to choose the processor that best meets your cost and performance needs.

See IBM Cloud Bare Metal Servers on next page

AMD EPYC™ PROCESSORS ON IBM CLOUD BARE METAL SERVERS

AMD EPYC™ 7763	AMD EPYC™ 7642	AMD EPYC™ 7F72
128 cores – 256 GB to 4096 GB RAM – 20 TB bandwidth ⁵	96 cores – 512 GB RAM – 20 TB bandwidth ⁵	48 cores – 512 GB RAM – 20 TB bandwidth ⁵
Suggested Workloads Data analytics, electronic design automation (EDA), AI, virtualization, containerization, Java®, fluid dynamics, HPC, large MySQL database		

LEARN MORE ABOUT AMD EPYC™ PROCESSORS ON IBM CLOUD BARE METAL SERVERS



IBM CLOUD

IBM is a leading global hybrid cloud and AI, and business services provider, helping clients in more than 175 countries capitalize on insights from their data, streamline business processes, reduce costs and gain the competitive edge in their industries. Nearly 3,000 government and corporate entities in critical infrastructure areas such as financial services, telecommunications and healthcare rely on IBM’s hybrid cloud platform and Red Hat OpenShift to affect their digital transformations quickly, efficiently, and securely. IBM’s breakthrough innovations in AI, quantum computing, industry-specific cloud solutions and business services deliver open and flexible options to our clients. All of this is backed by IBM’s legendary commitment to trust, transparency, responsibility, inclusivity, and service.

AMD EPYC™ PROCESSORS

AMD is a leader in high-performance computing technology at a time when many businesses are moving to the cloud.

That’s why AMD is teaming with leading cloud providers to deliver solutions powered by EPYC™ processors that provide outstanding value, easy scalability, and advanced security features.



¹ SPECrate®2017_int_base comparison based on best performing systems published at www.spec.org as of 07/06/2021. Configurations: 2x AMD EPYC 7763 (854 SPECrate®2017_int_base, <http://spec.org/cpu2017/results/res2021q3/cpu2017-20210622-27664.html>, \$15780 1Ku price total, 560W total TDP) versus 2x Intel Xeon Platinum 8380 (602 SPECrate®2017_int_base, <http://spec.org/cpu2017/results/res2021q2/cpu2017-20210521-26364.html>, \$16198 1Ku price total, 540W total TDP) for 1.42x the performance at 1.46x the score per total CPU \$; 0.89x the performance/Core; 1.37x the performance/Watt. AMD 1Ku pricing and Intel ARK.intel.com specifications and pricing as of 4/6/21. MLN-088B

² As of 6/22/2021. For a complete list of world records see <http://amd.com/worldrecords>

³ AMD Infinity Guard features vary by EPYC processor generations. Infinity Guard features must be enabled by server OEMs and/or cloud service providers to operate. Check with your OEM or provider to confirm support of these features. Learn more about Infinity Guard at <https://www.amd.com/en/technologies/infinity-guard> GD-183

⁴ Source: IBM. As of 08/05/2021 IBM compared AMD EPYC™ 7763 price per core (\$550/128 cores)= \$4.29 per core to Intel 8260 Intel processors per core (\$485/48 cores)= \$10.10. Total cost savings equaled 42%~. Cost saving percentage reduced by 22% as an estimate to account for potential RAM costs. AMD has not independently verified these savings.

⁵ Source: IBM. 20 TB bandwidth included in US, Canada and EU data centers; 5 TB bandwidth included in all other data centers. New prices and offers may not be combined with any other current or future discounts.