

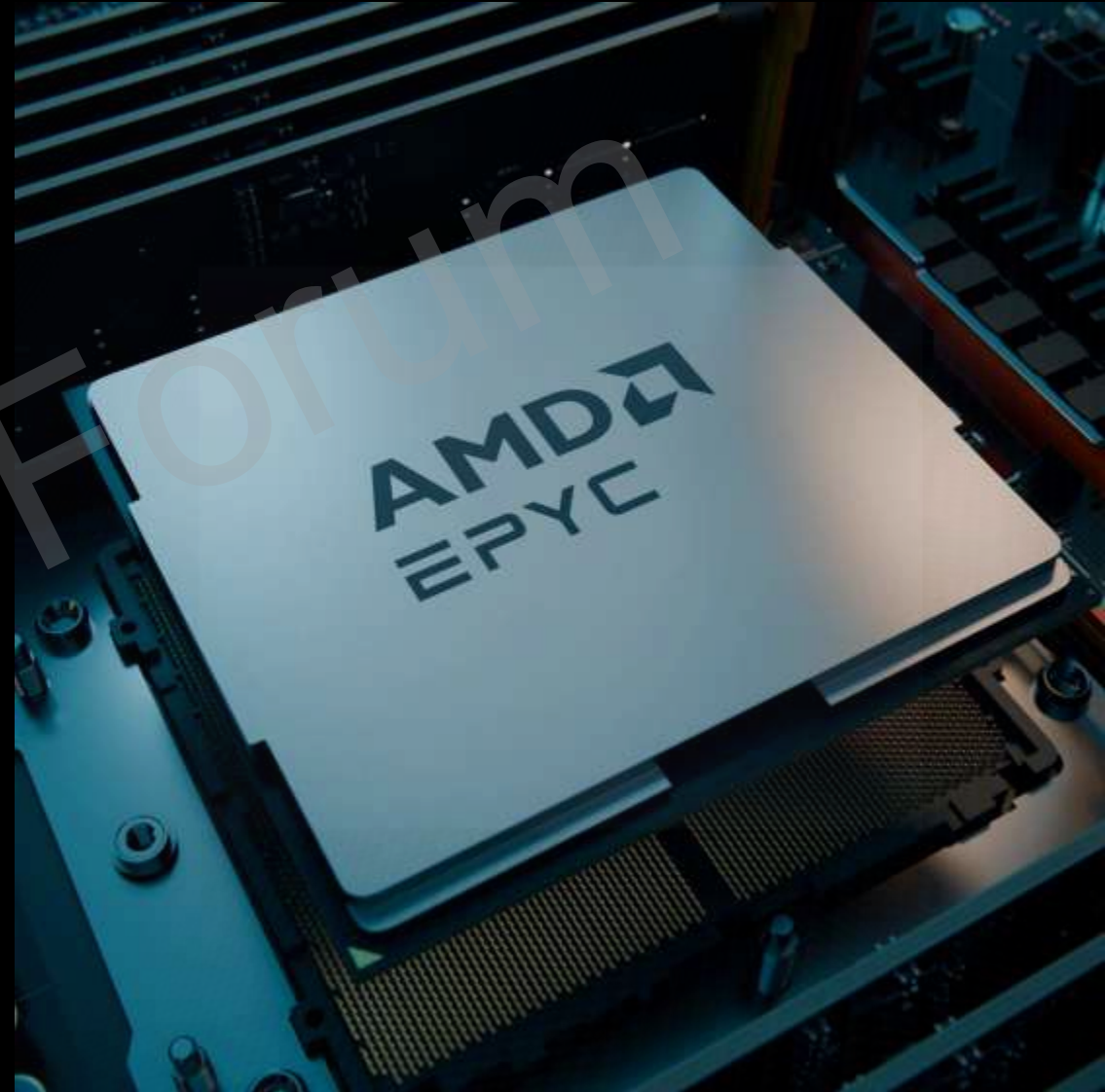


AMD EPYC Intro for Bechtle IT Forum Erfurt

May 20th 2026



Jan Baumann
FAE/Field Support (DACH)





High Performance and Adaptive Computing

Enabling Solutions To The World's Most Important Challenges

Solutions

Software

Silicon

#1 AI PC leadership technology³

#1 CPU for hyperscalers²

#1 Supercomputer¹

GPU leadership technology for AI inference and training

Most extensive AI PC line up empowering today's most demanding enterprise applications

Running mission-critical workloads for the world's largest Cloud Service Providers

#1 and #2 fastest supercomputers in the world

One of only two providers offering accelerated computing technology in the world

¹ Top500 supercomputer list November 2024 <https://top500.org/lists/top500/2024/11/>

² Based on AMD internal market share estimates

³ Based on AMD product specifications and competitive products announced at CES as of January 2025 . STXP-03



AMD environmental goals and progress

2024 Results will be available in Q3 2025*

Status*

50% reduction in GHG emissions from AMD operations (2020-2030)

> **28 %**¹

30X increase in energy efficiency for AMD CPUs and GPUs powering servers for HPC and AI-training (2020-2025)²

> **38 x**³
(as of Dec 2025)

80% of AMD direct manufacturing suppliers⁴ source renewable energy⁶ by 2025

> **74 %**⁵

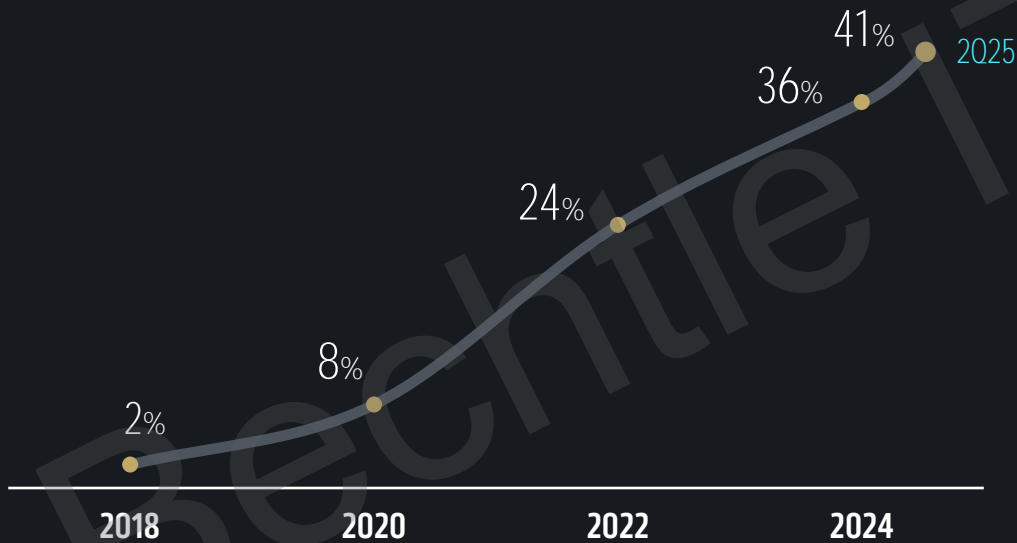
100% of AMD direct manufacturing suppliers have public GHG goals by 2025

> **87 %**⁵

*As of December 31, 2024 unless otherwise noted. Source: [AMD 2023-24 Corporate Responsibility Report](#)

EPYC Momentum Accelerates...

>18x Server CPU Market Share Growth

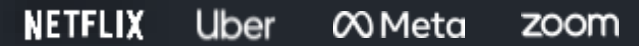


Industry Leaders Run on EPYC™

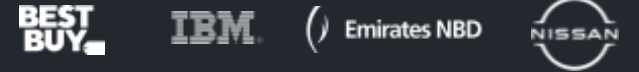
Cloud



Digital



Enterprise



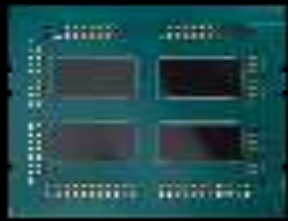
OEM



AMD EPYC™ Server CPUs

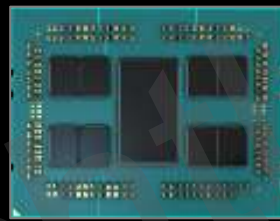
Five generations of on time leading technology innovation

1st Gen
AMD EPYC™



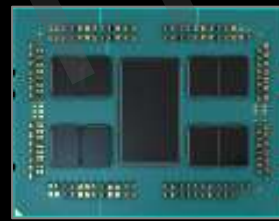
7001
SP3

2nd Gen
AMD EPYC™



7002
SP3

3rd Gen
AMD EPYC™



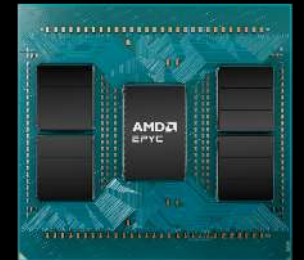
7003
SP3

4th Gen
AMD EPYC™



9004
SP5

5th Gen
AMD EPYC™



9005
SP5

Future products

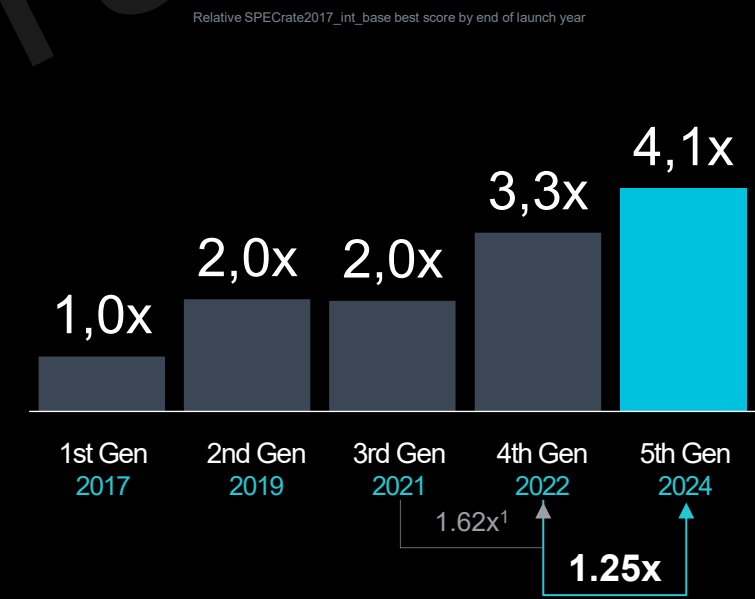
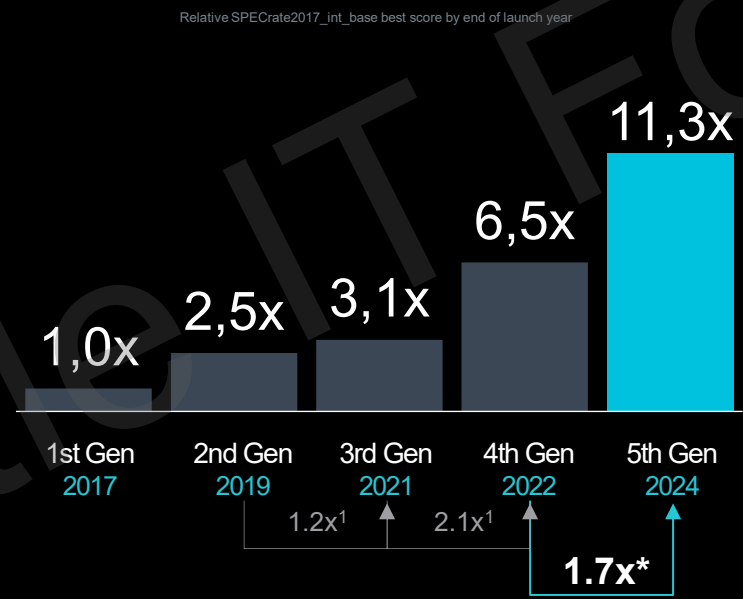
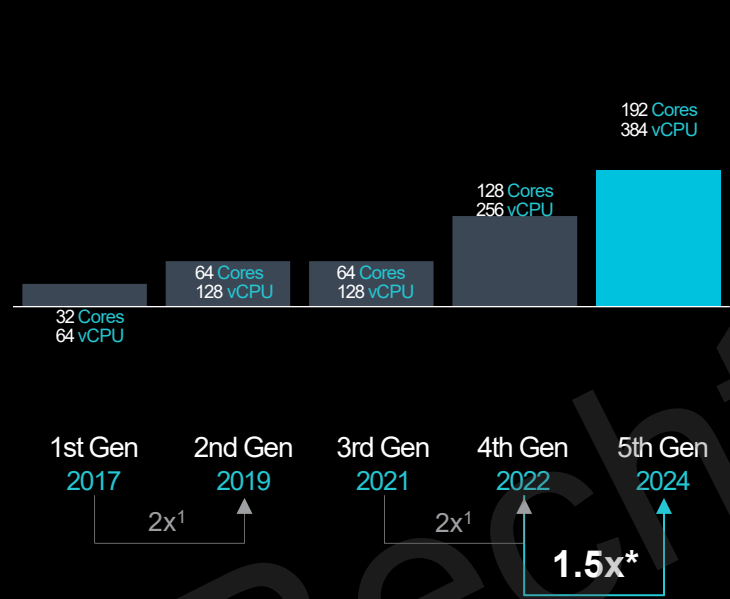
All roadmaps are subject to change.

Benefits of Five Generations of AMD CPU Leadership

6x Core Count
Across 5 Generations

11.3x Performance
Across 5 Generations

4.1x Performance / CPU W
Across 5 Generations



Total results as of 10/30/2024. See endnote 9xx5-069B

1 – comparison done using top of the stack CPU products, specifically: 1st Gen (7001 Series – 7601), 2nd Gen (7002 Series – 7H12), 3rd Gen (7003 Series – 7763), 4th Gen (9004 Series – 9754), 5th Gen (9005 Series – 9965). All processor specifications are available on AMD.com website: [Server Processor Specifications](#)

Upgrade to AMD with confidence

Fully Compatible with Existing Software

(Implements x86-64 Instruction Set Developed by AMD, Adopted by Intel)

HPC and AI

ALTAIR | Ansys | DASSAULT SYSTEMES | deci. | NEURAL MAGIC | ONNX | PyTorch | SIEMENS | TensorFlow

Database Analytics

CLOUDERA | Couchbase | databricks | DATASTAX | elastic | MarkLogic | mongoDB | splunk > | SingleStore | VERTICA

Database

Exasol | influxdata® | Microsoft SQL Server | ORACLE® | PostgreSQL | redislabs | TigerGraph | SAP | cassandra | MYSQL® | MariaDB

OS

CANONICAL | Citrix | FreeBSD | Microsoft | NUTANIX | ORACLE® | Red Hat | SUSE | vmware®

HCI/Orchestration

docker | kubernetes | Microsoft | NUTANIX | Red Hat | simplivity | vmware®

HPC and AI

CLOUDIAN | Excelero | Pivot | Quobyte | ceph | StorMagic | WEKA

Robust Tools and Libraries

Zen Software Studio

AOCC Compiler | AOCL Libraries | AMD uProf | ZenDNN | Spack Support

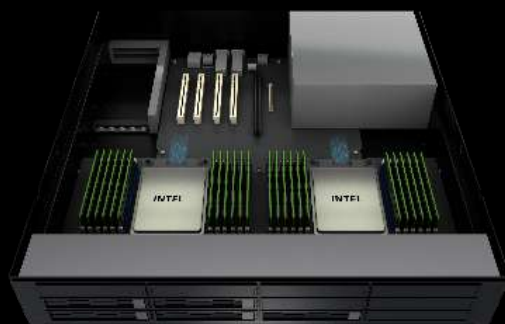
VMware Architecture Migration Tool (VAMT)

Available on GitHub: <https://github.com/vmware-samples/vmware-architecture-migration-tool>

AMD EPYC™ CPU Based 1P platforms

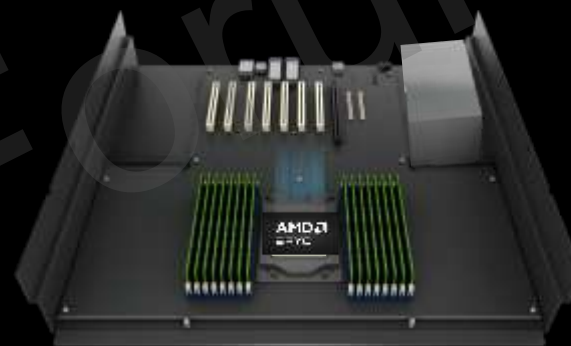
Infrastructure designed with efficiency in mind

2-socket Intel® Xeon®



VS

1-socket AMD EPYC™



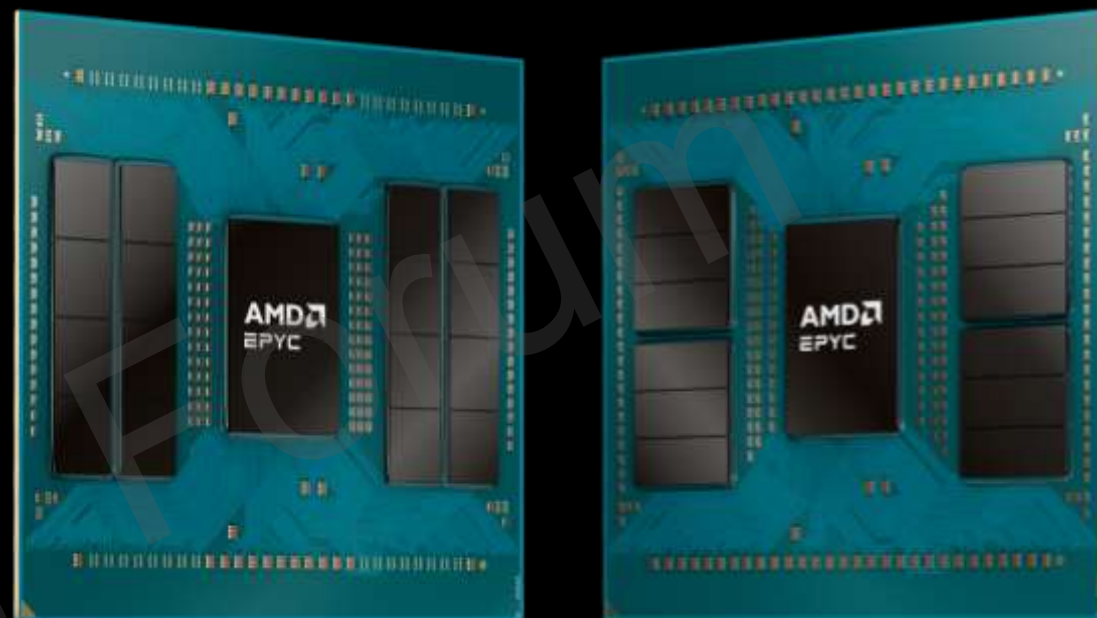
- 2 CPUs to buy and power
- Additional board space used for 2nd socket and memory DIMMs
- Additional VRM, socket, PSU, board, and cooling costs
- Pay for 2-socket infrastructure even if only one CPU is populated

- ✓ 1 CPU to buy and power
- ✓ Designed for smaller boards and smaller power supplies
- ✓ Easy to cool
- ✓ Fewer components
- ✓ No compromise on performance or features

5th Gen AMD EPYC™ Processors

Formerly codenamed “Turin”

World’s best CPU for cloud, enterprise & AI



TSMC 3/4nm

Up to **192 cores**
Up to **384 threads**

Up to **5GHz**

AVX512
full 512b data path

17%
Enterprise IPC Uplift

37%
HPC/AI IPC Uplift

SP5 Platform
Compatible with “Genoa”

AMD EPYC™ 9005 Series Processors



Increased core density



Energy efficient



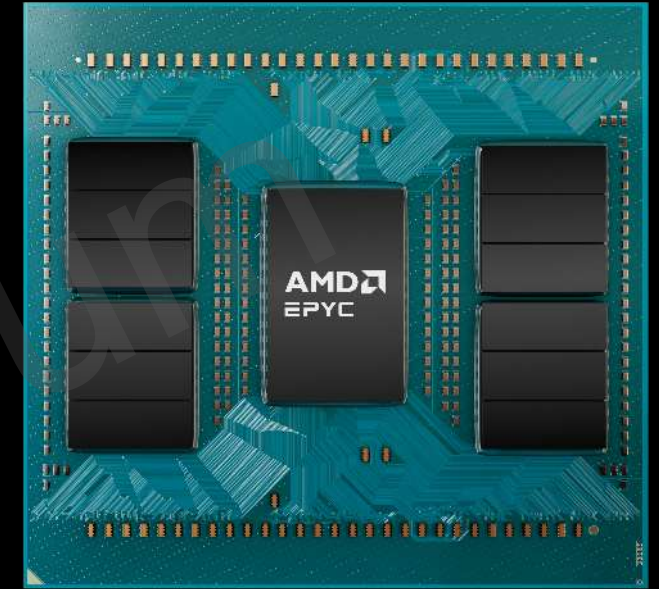
Broad OPN stack

Cores	AMD EPYC	CCD (Zen5/Zen5c)	Base/Boost* (up to GHz)	Default TDP (W)	L3 Cache (MB)	Price (1 KU, USD)
192 cores	9965	"Zen5c"	2.25 / 3.7	500W	384	\$14,813
160 cores	9845	"Zen5c"	2.1 / 3.7	390W	320	\$13,564
144 cores	9825	"Zen5c"	2.2 / 3.7	390W	384	\$13,006
128 cores	9755	"Zen5"	2.7 / 4.1	500W	512	\$12,984
	9745	"Zen5c"	2.4 / 3.7	400W	256	\$12,141
96 cores	9655	"Zen5"	2.6 / 4.5	400W	384	\$11,852
	9655P	"Zen5"	2.6 / 4.5	400W	384	\$10,811
	9645	"Zen5c"	2.3 / 3.7	320W	256	\$11,048
72 cores	9565	"Zen5"	3.15 / 4.3	400W	384	\$10,486
	9575F	"Zen5"	3.3 / 5.0	400W	256	\$11,791
64 cores	9555	"Zen5"	3.2 / 4.4	360W	256	\$9,826
	9555P	"Zen5"	3.2 / 4.4	360W	256	\$7,983
	9535	"Zen5"	2.4 / 4.3	300W	256	\$8,992
48 cores	9475F	"Zen5"	3.65 / 4.8	400W	256	\$7,592
	9455	"Zen5"	3.15 / 4.4	300W	256	\$5,412
	9455P	"Zen5"	3.15 / 4.4	300W	256	\$4,819
36 cores	9365	"Zen5"	3.4 / 4.3	300W	192	\$4,341
32 cores	9375F	"Zen5"	3.8 / 4.8	320W	256	\$5,306
	9355	"Zen5"	3.55 / 4.4	280W	256	\$3,694
	9355P	"Zen5"	3.55 / 4.4	280W	256	\$2,998
	9335	"Zen5"	3.0 / 4.4	210W	128	\$3,178
24 cores	9275F	"Zen5"	4.1 / 4.8	320W	256	\$3,439
	9255	"Zen5"	3.25 / 4.3	200W	128	\$2,495
16 cores	9175F	"Zen5"	4.2 / 5.0	320W	512	\$4,256
	9135	"Zen5"	3.65 / 4.3	200W	64	\$1,214
8 cores	9115	"Zen5"	2.6 / 4.1	125W	64	\$726
	9015	"Zen5"	3.6 / 4.1	125W	64	\$527

5th Gen AMD EPYC™ Processors

AMD EPYC™ 9005 Series

Delivering performance leadership for cloud, enterprise & AI



SPEC® CPU Performance

2.7X

Enterprise Performance

Up to **4.0X**

HPC Performance

Up to **3.9X**

CPU-based AI Inference

Up to **3.8X**

GPU Host Node

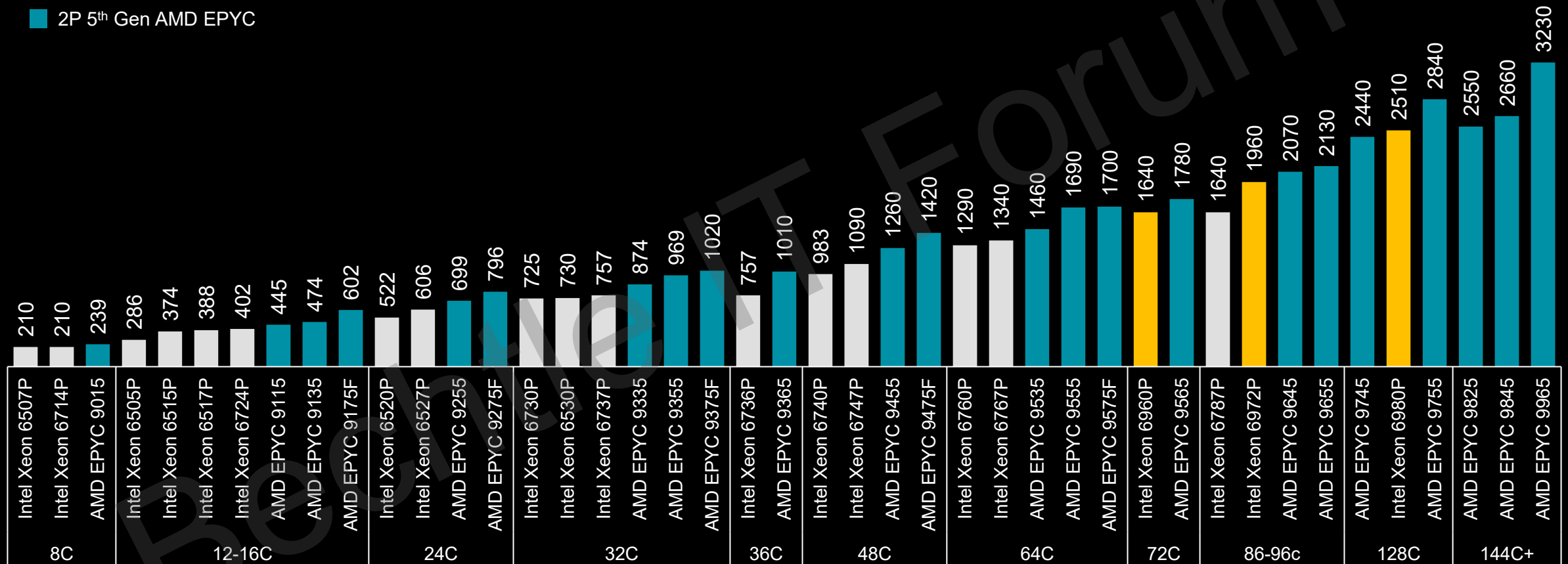
Up to **1.3X**

2.7X SPEC CPU = SPECrate®_2017_int_base; 4.0X Enterprise = FFMPEG raw to vp9; 3.9X HPC = GOCMACS; 3.8X AI = Workload derived from TPCx-AI; 1.2X (AMD EPYC 9965 vs Intel® Xeon® 8592+)
GPU host = Llama3.1-70B Inference Benchmark, 8xGPU (AMD EPYC 9575F vs Intel Xeon 8592+)
See endnotes 9xx5-002C, 006, 012, 022, 059

AMD EPYC™ 9005 CPU Performance Across Similar Cores

SPECrate®2017_int_base per core category for published dual socket servers

- 2P 6th Gen Intel Xeon
- 2P 5th Gen AMD EPYC

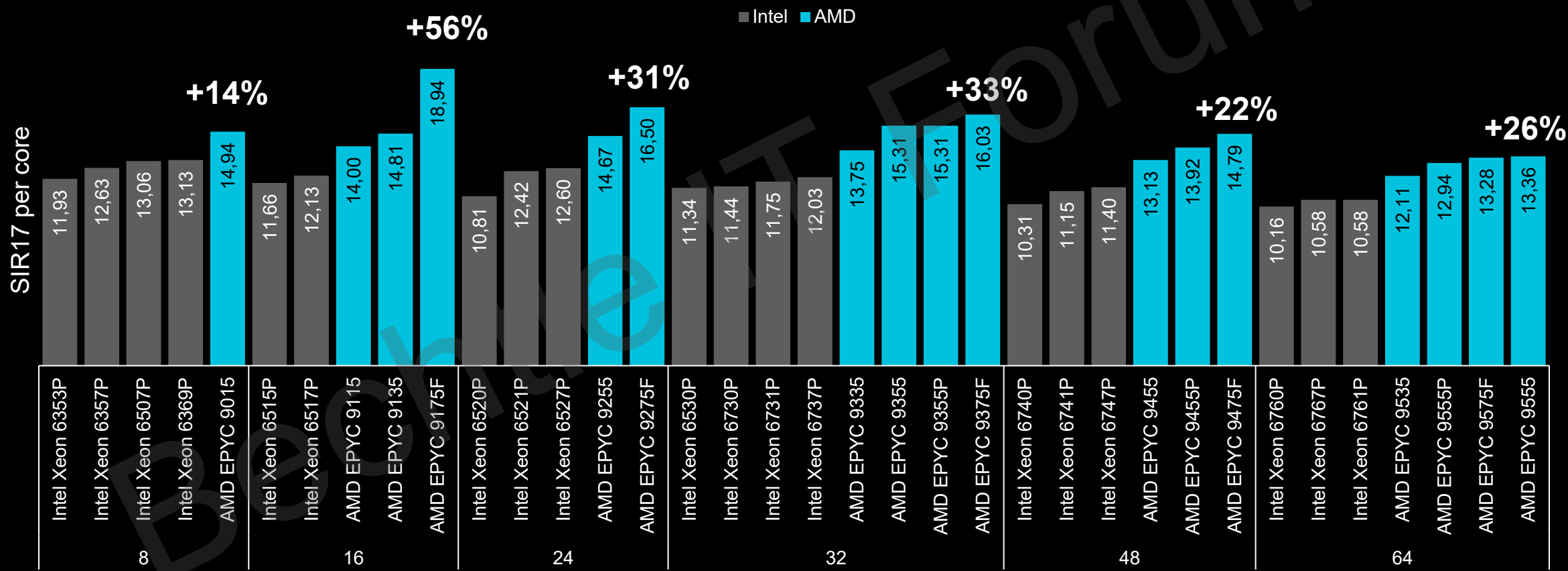


As of 06/11/2025. SPECrate®2017_int_base scores from spec.org. SPEC®, SPEC CPU®, and SPECrate® are registered trademarks of the Standard Performance Evaluation Corporation. See www.spec.org for more information.



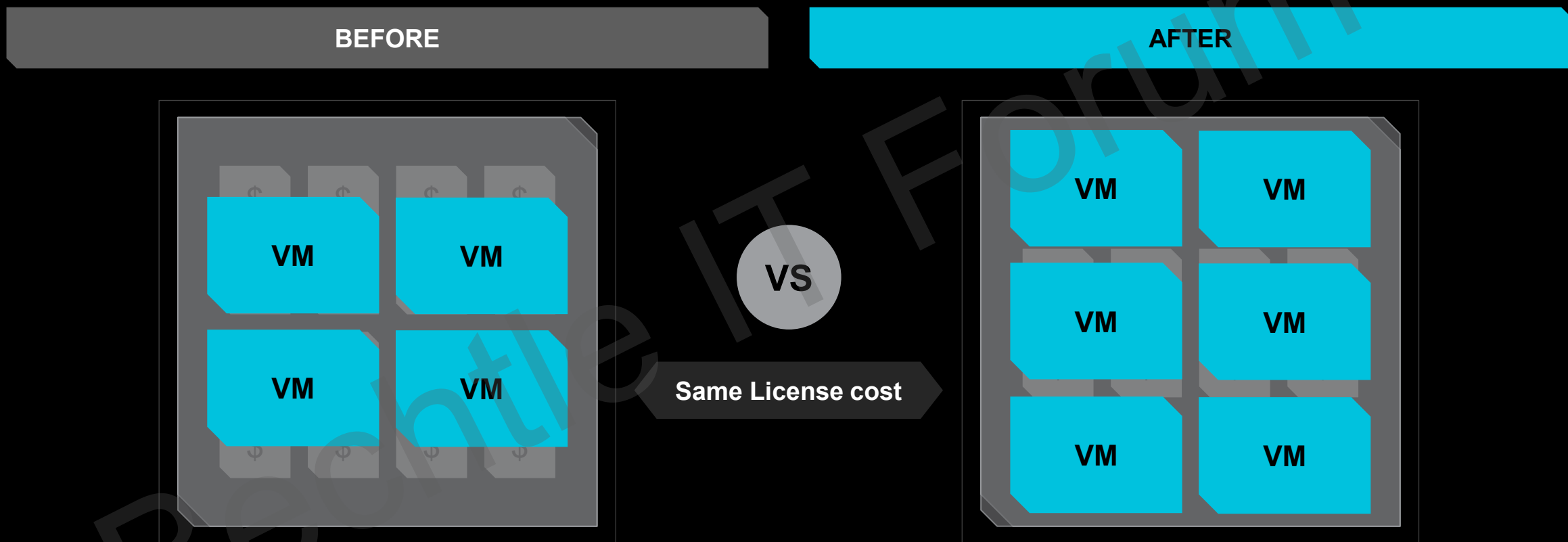
“Turin” Outperforms All Granite Rapids CPUs

Intel 6th Gen Xeon (Granite Rapids) vs. AMD 5th Gen EPYC™ (“Turin”)



Only common core counts shown; no E cores or 6900 series shown

AMD EPYC™ Server CPUs: More VMs. Same License. Better Value.



Unlock More VMs per Core with AMD EPYC Server CPUs

AMD EPYC™ “Venice” Highest Performance Server CPU

Up to

256 cores

2nm • Zen 6

2.0x

CPU to GPU Bandwidth

1.7x

Gen vs. Gen Performance

1.6 TB/s

Memory Bandwidth

Coming in 2026



DBS, a leading digital bank, switched to AMD EPYC CPU-powered servers in 2019, **reducing power consumption by 50% while gaining 10x capacity to grow.**





Citadel Securities uses AMD EPYC™ processors for financial trading research and saw a 35% performance improvement compared to using competitive CPU offerings.

AMD × CITADEL



Emirates uses AMD EPYC™ for internal and external services to get **42% better performance and 20% reduction in virtualization licensing costs** compared to competitive CPU offerings.

“We haven’t had any issues migrating over. We can now run the same number of VMs on fewer servers...”

Ali Rey, SVP, Technology Platforms, Emirates NBD



EPYC™ SALES TOOLS

APPLICATION PERFORMANCE DOCUMENTATION

www.amd.com/en/processors/server-tech-docs/search

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Virtual Desktop Infrastructure (VDI) Tuning Guide for AMD EPYC™ 7003 Series Processors
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 Release Date: May, 2021

Hadoop™ Tuning Guide for AMD EPYC™ 7003 Series Processors
 Category: Tuning Guides Product Series: EPYC 7003 Series Processors Document Type: Tuning Guide
 Release Date: April, 2021

Linux® Network Tuning Guide for AMD EPYC™ 7003 Series Processors
 Category: Tuning Guides Product Series: EPYC 7003 Series Processors Document Type: Tuning Guide
 Release Date: April, 2021

Windows® Network Tuning Guide for AMD EPYC™ 7003 Series Processors
 Category: Tuning Guides Product Series: EPYC 7003 Series Processors Document Type: Tuning Guide
 Release Date: April, 2021

Workload Tuning Guide for AMD EPYC™ 7003 Series Processors

CPU SELECTOR AND TCO CALCULATORS

<https://www.amd.com/de/resources/epyc-tools.html>

Discover the Value of AMD EPYC™ Processors with these great tools

AMD EPYC™ Processor Selector Tool with Kit Configurator
 Compare your current CPU with AMD EPYC™ CPUs on price, cores, and performance, then build out your ideal server.

AMD EPYC™ Server Virtualization TCO Estimation Tool
 See the potential value AMD EPYC™ CPUs may deliver for your datacenter. Input your VM requirements and environment factors like power, real estate cost, select your virtualization license, and more. Compare your current x86 based server solution to a solution powered by AMD EPYC™ processors.

AMD EPYC™ Bare Metal TCO Estimation Tool
 Discover the potential value that AMD EPYC™ CPUs can deliver for your bare metal server environment. Compare by server count, performance, or total budget. Then select your filter, your processor comparisons, and system memory requirements. Choose 3, 4, or 5 year time frames for your AMD EPYC™ Bare Metal TCO estimation.

AMD Cloud Cost Advisor
 Discover the potential value AMD EPYC™ CPUs bring to the cloud with the latest cost analysis tool. AMD Cloud Cost Advisor helps with real-time insights into estimated cost savings when switching to cloud instances powered by AMD within the same cloud service provider.

USE THE TOOL

USE THE TOOL

USE THE TOOL

USE THE TOOL

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& MORE

ALSO AVAILABLE:



Thank you!

AMD 
together we advance_