

AMD TO TOUCH A NEWER HEIGHT

Unveiled the World's Highest Performing Server Processor

SANTA CLARA, Calif. — At a digital event, AMD (NASDAQ: AMD) announced the new AMD EPYC™ 7003 Series CPUs, which includes the AMD EPYC 7763, the world's highest-performing server processor. The new EPYC 7003 series processors help HPC, cloud and enterprise customers do more, faster, by delivering the best performance of any server CPU with 19% more instructions per clock.

With the launch of our 3rd Gen AMD EPYC processors, we are incredibly excited to deliver the fastest server CPU in the world. These processors extend our data center leadership and help customers solve today's most complex IT challenges, while substantially growing our ecosystem," said Forrest Norrod, senior vice president and general manager, Data Center and Embedded Solutions Business Group. "We not only double the performance over the competition in HPC, cloud and enterprise workloads with our newest server CPUs, but together with the AMD Instinct GPUs, we are breaking the exascale barrier in supercomputing and helping to tackle problems that have previously been beyond humanity's reach."



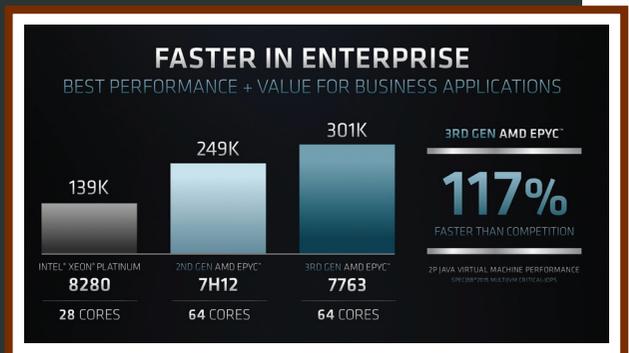
AMD EPYC Processors, Powering the Modern Data Center

AMD EPYC 7003 Series Processors have up to 64 "Zen 3" cores per processor and introduce new levels of per-core cache memory, while continuing to support the PCIe® 4 connectivity and class-leading memory bandwidth, that defined the EPYC 7002 series CPUs. 3rd Gen AMD EPYC processors also include modern security features through AMD Infinity Guard and a new feature called Secure Encrypted Virtualization-Secure Nested Paging (SEV-SNP). SEV-SNP expands the existing SEV features on EPYC processors, adding strong memory integrity protection capabilities to help prevent malicious hypervisor-based attacks by creating an isolated execution environment.

PARTNERS USING AMD EPYC 7003 SERIES PROCESSORS

The AMD EPYC processor ecosystem is expected to grow significantly by the end of 2021 with more than 400 cloud instances using all generations of EPYC processors and 100 new server platforms using 3rd Gen EPYC processors. AMD EPYC 7003 Series processor-based solutions are available now through numerous OEMs, ODMs, cloud providers and channel partners around the world.

- 1. AWS** – will add the AMD EPYC 7003 series processors to its core Amazon EC2 instance families later this year.
- 2. Cisco** – introduced new Cisco Unified Computing System™ (Cisco UCS®) rack server models with AMD EPYC 7003 Series Processors designed to support modern hybrid cloud workloads.
- 3. Dell Technologies** – announced the all new PowerEdge XE8545 server with AMD EPYC 7003 series CPUs, and the company will support the new processors within its PowerEdge server portfolio.
- 4. Google Cloud** – announced AMD EPYC 7003 series processors will power a new compute optimized VM, C2D, and an expansion of the existing general purpose N2D VM later this year. Google Cloud Confidential Computing will be available on both C2D and N2D.
- 5. HPE** – announced it will double the lineup of AMD EPYC processor powered solutions, using the AMD EPYC 7003 series processors in new HPE ProLiant servers, HPE Apollo systems and HPE Cray EX supercomputers.
- 6. Lenovo** – added ten Lenovo ThinkSystem Servers and ThinkAgile HCI solutions built on 3rd Gen EPYC processors, and achieved more than 25 new world records across a broad set of industry-standard benchmarks in workload areas.
- 7. Microsoft Azure** – announced multiple new virtual machine offerings powered by AMD EPYC 7003 series processors. Azure HBv3 virtual machines for HPC applications are generally available today, and Confidential Computing virtual machines that utilize the full security features of the new AMD EPYC 7003 series processors are in private preview.
- 8. Oracle Cloud Infrastructure** – announced it is extending its flexible virtual machine and bare metal compute offerings with the new E4 platform based on 3rd Generation AMD EPYC Processors.
- 9. Supermicro** – introduced the AMD EPYC 7003 series processor in its Supermicro A+ single and dual socket family of Ultra, Twin, SuperBlade®, Storage and GPU Optimized Systems.
- 10. Tencent Cloud** – announced the new Tencent Cloud SA3 server instance, powered by the 3rd Gen AMD EPYC processors.
- 11. VMware** – announced its latest release of VMware vSphere 7 which is optimized to take advantage of AMD EPYC processors virtualization performance, while supporting the processors' advanced security features, including SEV-ES for both virtual machine based and containerized applications.



“At AMD, we have been laser focused on what we do best – building high-performance products. We are executing on our strategy to establish long-term leadership across the data center, PC and gaming markets. We are leading the way with powerful architectures based on the latest process technology. Performance leadership, multi-layered security solutions, reliable execution, and strong leadership roadmap have enabled AMD to be the partner of choice to our customers.”



VINAY SINHA
MD– Sales, India, AMD

and flexibility are some of the key priorities CIOs are looking to address. Cost also continues to be a challenging factor for enterprises, especially legacy organizations who have just started on their digital transformation journeys. Collaboration technologies that permit teams to “do more with less” is becoming the norm as IT spending has become critical in a post pandemic setting. At AMD, we work closely with the CIOs to address these challenges in a collaborative and sustained way to build agile and robust IT infrastructure without compromising on resilience. Taking a closer look at the environment, we also believe that Indian CIOs are ahead of the curve, as India is home to some of the most cutting-edge IT and innovation hubs in the world.

Enterprises to strengthen their cybersecurity measures

Security concerns remain a top enterprise priority. As the government, enterprises, and institutions depend on the use of complex data and application services, the risk of cyber-attacks multiplies significantly. In the current scenario, there is need of embedded security will be required to play its part in securing the Internet of Things. There is need of chip-level security features, which are likely to become even more top-of-the-mind, as the Internet of Things distributes processing power toward edge infrastructure, where security concerns become even more critical.

Speaking on the demand for PCs and desktops from enterprises are concerned..

We saw strong demand for commercial PCs and laptops driven significantly by remote working and learning. Business continuity planning at organizations have led to increase in adoption of premium notebooks considering the need for longevity, robust security features and remote manageability. As we adapt to the new norm of remote working and hybrid work models, enterprises seek powerful systems that enable workers to experience the same level of performance without compromising on the security features, even with their home-based office setups.

Strategy for 2021

Our strong 2020 results and 2021 guidance demonstrate the growing momentum for our leadership product portfolio, and we are committed to push our boundaries in PCs, gaming, datacenter, and the cloud together with our industry partners.

In FY20, our annual revenue grew 45%, setting a company record at \$9.76 billion[4]. We had record revenue on the server front in Q4, as both cloud and enterprise sales grew sequentially[5]. In 2021, our datacenter business is expected to accelerate further, as we strive to elevate our leadership performance, efficiency and TCO leadership in the server space.

Lastly, we have been strong in cloud-based datacenters, and we will continue to build momentum here through our strategic partnerships. Furthermore, we are focused towards commercial HPC, and in broadening our server offering for enterprises, targeted towards different vertical markets, including telecom, manufacturing, BFSI, education and SMEs.

At AMD, we have been laser focused on what we do best – building high-performance products. We are executing on our strategy to establish long-term leadership across the data center, PC and gaming markets. We are leading the way with powerful architectures based on the latest process technology. Performance leadership, multi-layered security solutions, reliable execution, and strong leadership roadmap have enabled AMD to be the partner of choice to our customers.

AMD continues to push the envelope on high performance computing across the cloud infrastructure and personal computing. We do recognize it is an extremely competitive market. Our focus remains on ensuring that we have a consistent roadmap which will enable us to deliver the leading edge performance improvements to our customers. The recent announcement by Lisa Su, CEO AMD at CES 2021, we are also excited about the AMD Ryzen™ PRO 5000 Series of Mobile Processors for enterprise, which will be coming to the market this year.

Launches @ CES 2021

AMD began 2021 on a promising note at CES as CEO Dr. Lisa Su announced the launch of the much-awaited AMD Ryzen™ 5000 Series Mobile Processors which brings industry-leading performance[1] and high efficiency of the Zen 3 core architecture to laptops. We are delivering unprecedented levels of performance and incredible battery life to gamers, creators, and business working professionals. The new laptops powered by the Ryzen™ 5000 Series Mobile Processors will be available from major OEM manufacturers including ASUS, HP, Lenovo, Acer and Dell. We also announced the AMD Ryzen™_ PRO 5000 Series Mobile Processors, which offer enterprise-grade security features and seamless manageability to commercial business users. Throughout the course of 2021, we expect to roll out a broad portfolio of more than 150 consumer and commercial notebooks based on the Ryzen™ 5000 Series Mobile Processors.[2] Lisa also provided the first public demonstration of the upcoming 3rd Gen AMD EPYC™ server processor for datacenters, cloud services and

high-performance computing. This portfolio will raise the bar for performance, advanced security features and the business value for which AMD is known.

Trends on the server front to watch out for in 2021

IDC predicts that by 2023, over 65% of the APAC GDP will be digitalized[3]. Organizations across the globe are actively coming forward to provide technical parity to workforces that are becoming hybrid by design, while continuing to seamlessly service their customers. This in turn has compelled IT decision makers to relook at their IT infrastructure and consider modernizing their datacenters and adopt hyperconverged infrastructure (HCI) models, which will enable them to make faster, data-driven decisions, enhance cybersecurity and drive impactful business outcomes. Enterprise datacenters will undergo modernization, led by the need to gain insights from analyzing copious amounts of data quickly, while maximizing return on investments, and HPC applications.

Addressing the key priorities of the CIOs in the Country..

In this era of digital enterprises where organizations are dealing with heavy workloads on multiple applications led by a deluge of data, CIOs seek innovations that modernize the traditional datacenters, which can bring in much needed higher performance computing capabilities with improved efficiency. In addition to this, security features and increased complexity of software within the environment, performance

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AMD RYZEN™ PRO PROCESSOR-BASED LAPTOPS HAS LONG BATTERY LIFE FOR GENERAL OFFICE USE AND IT IS READY WITH THE ENTERPRISE-LEVEL SECURITY FEATURES BUSINESSES REQUIREMENTS.
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