## AMD

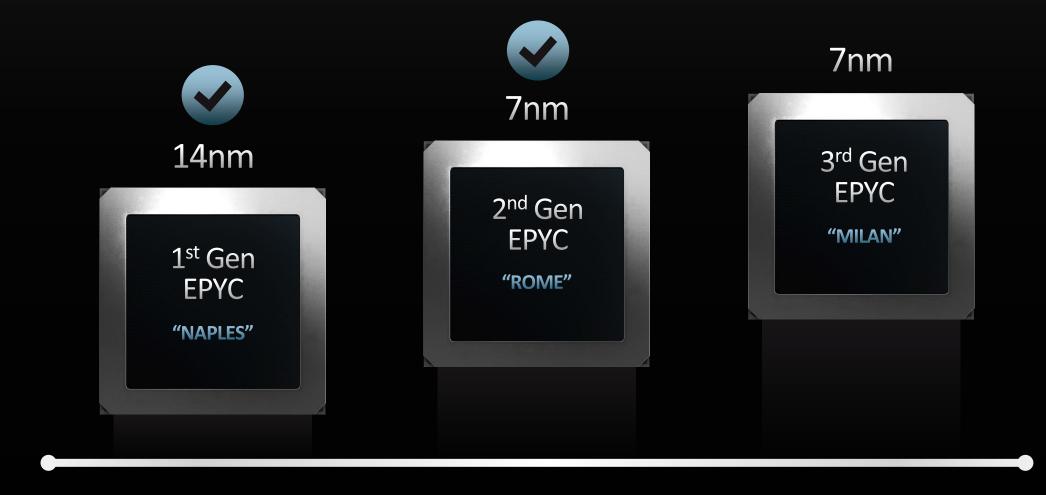
## AMD EPYC™ PROCESSORS

#### ENABLING SOLUTIONS FOR THE MODERN DATA CENTER

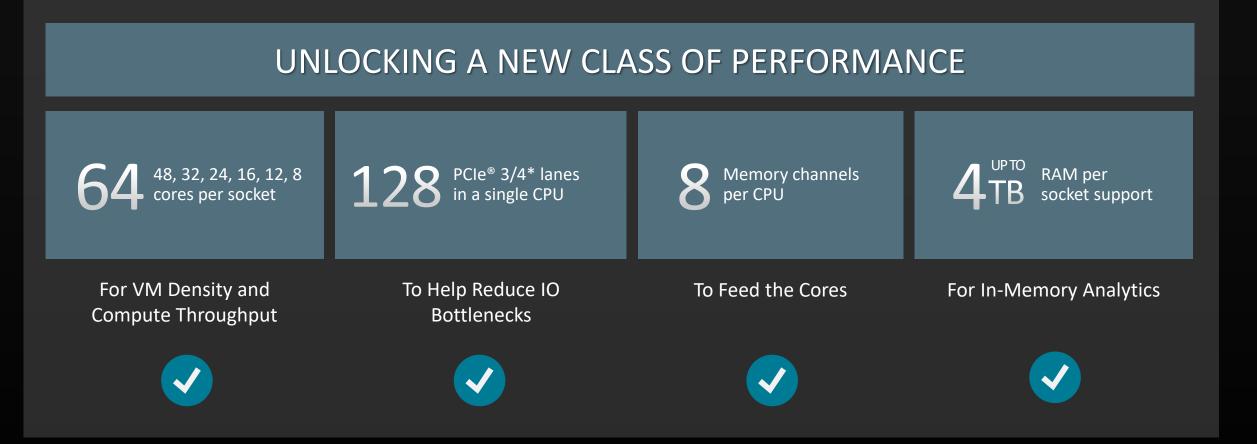
#### MICHAEL DETWILER

SENIOR MANAGER, AMD SERVER BUSINESS UNIT

## **LEADERSHIP ROADMAP AND EXECUTION**



## 2<sup>ND</sup> GENERATION AMD EPYC<sup>™</sup>



## **EPYC<sup>TM</sup> PERFORMANCE OPTIMIZED SKUS** APPLICATION PERFORMANCE - MORE THAN JUST FREQUENCY

#### HIGH-PERFORMANCE

High Performance "Zen 2" core High base and boost frequencies 7nm process delivers more performance for less power

#### **CPU ARCHITECTURE**

Large L3 cache located close to cores provides low latency access to critical data. Infinity Architecture enables linear scaling

#### SYSTEM DESIGN

Reduce bottlenecks with industry leading 8 channels of DDR4-3200 memory and up to 128 lanes of PCIe<sup>®</sup> 4.0 connectivity





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Processor	Cores	Base Freq. (GHz)		Max Mem Speed (MHz)	Max Memory Capacity	PCle®	L3 cache (MB)
AMD EPYC™ 7F32	8	3.7	3.9	3200	4TB	Gen4	128
AMD EPYC™ 7F52	16	3.5	3.9	3200	4TB	Gen4	256
AMD EPYC™ 7F72	24	3.2	3.7	3200	4TB	Gen4	192

# 170+ WORLD RECORDS AND COUNTING

https://www.amd.com/en/processors/epyc-world-records

NOT STAC BENCHMARKS

## **GAINING TRACTION IN FINANCIAL SERVICES**



#### VIRTUALIZED IT

Cores/rack



GRID COMPUTING

Compute/rack



#### SOFTWARE-DEFINED INFRASTRUCTURE

Efficiency and high connectivity

## **ACCELERATING TIME TO VALUE**



#### Delivering SI, Platforms, Tools, Libraries, and Strategic Partners

## **NEW TICK-TO-TRADE SOLUTION**

#### AMDA EPYC Lenovo & XILINX® Ida technologies

#### Lenovo ThinkSystem<sup>™</sup> SR665





#### **Solution advantages**

- Under 25 nanoseconds Tick-to-Trade backed up by a STAC Research TO benchmark
- Dual board solution leveraging patented Xilinx Delegated Sends technology along with LDA Technologies Lightspeed v.2 TCP
- Lenovo SR655 is an excellent platform for building performant trading solutions
- ➤ All powered by AMD EPYC<sup>™</sup> processors

https://www.stacresearch.com/XLX200514

https://www.xilinx.com/publications/solution-briefs/partner/xilinx-lda-amd-tick-to-trade-solution-brief.pdf

## EPYC<sup>TM</sup> CLOUD SOLUTIONS MOMENTUM





ORACLE

CLOUD

Estimated 150+ AMD EPYC-based cloud instances available in 2020

#### Google Cloud Platform Confidential VMs – Powered by 2nd Gen AMD EPYC<sup>™</sup> Processors

1st product in the Google portfolio designed to secure data in a virtualized environment with AMD EPYC<sup>™</sup> CPU-enabled hardware-based security.



### **2020 HCI SOLUTIONS BY OEM**

OEM	D&LLEMC	NUTANIX	Hewlett Packard Enterprise	Lenovo	SUPERMICR	 cisco
Appliances	VxRail E665 Nutanix XC-6515	HPE DX385	SimpliVity DL325 Nimble dHCI	ThinkAgile HX3375		FlashStack with PureStorage*
	Azure Stack HCI AX-6515		(DL325, DL385) Nutanix DX385			FlexPod With NetAPP*
			via Greenlake			*Note: Converged – not HCI
Solutions	VMware ReadyNodes (R6515, R6525, R7515, R7525, C6525)	HPE DL325 via VAR	VMware ReadyNodes (DL325, DL385) Azure Stack HCI (DL325, DL385)	ThinkAgile HX3376 Certified Node VMware	VMware ReadyNodes (1P & 2P)	
				ReadyNodes (SR635, SR655)		

## WHERE WE ARE TODAY

Predictable Execution

Leadership Performance

Strong Ecosystem Support

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