KOI COMPUTERS

ANSYS ON KOI COMPUTERS

PERFORMANCE WITHOUT COMPROMISE

Optional liquid cooling for higher-performance CPUs / 5th Generation AMD EPYC Processors / Up to 24x DDR5 6000MHz memory / Available in 1U, 2U, and 4U Rack Server Configurations

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ANSYS APPLICATIONS

AMD VALUE PROPOSITION FOR ANSYS

Better performance with 5th Gen AMD EPYC™ CPUs* vs. 5th Gen Intel® Xeon® Platinum CPUs*

Up To ~1.42x speedup[1] for Ansys® Mechanical™

Up To ~1.82x speedup[2] for Ansys® LS-DYNA®

Up To ~1.75x speedup[3] for Ansys® CFX®

Up To ~1.56x speedup[4] for Ansys® Fluent®

CONTACT US TODAY

WHY RUN ANSYS APPLICATIONS ON AMD PROCESSORS?

Companies are investing in high-performance compute infrastructure with the best-performing processors to maximize the value of game-changing Ansys applications. The 5th Gen AMD EPYC processors deliver the optimal architecture for Ansys and help reduce constraints on the number, size, and complexity of simulation models while helping provide faster time to results. In addition, with AMD CPU-based systems, engineers can improve design quality and prototype performance and significantly reduce total cost of ownership (TCO) using fewer servers to do the same work, helping reduce power and lower related emissions.

HOW DOES AMD IMPROVE ANSYS APPLICATIONS' PERFORMANCE?

Compared to the prior generation, the new AMD EPYC 5th Gen processors built on the breakthrough high performance, highly efficient Zen 5 procssor core architect and advanced microprocessor process technologies achieves better performances for Ansys applications.

AMD PROCESSORS FOR ANSYS

KOI COMPUTER SYSTEM CONFIGURATIONS

Below are our recommendations for Ansys applications with 5th Gen AMD EPYC™ processors with 12 memory channels per socket and support for AVX-512 instructions. This can deliver high throughput per node for Ansys applications since they benefit from multicore parallelism and greater memory bandwidth.

SUITABLE FOR	SERVER/PROCESSOR	MEMORY	STORAGE/NETWORK
ANSYS CFX, FLUENT (cost-effective)	• EG22-2UDP893 • 2x EPYC 9375F CPUs • 64 Cores Per Node • 3.80 GHz I 4.40 GHz • L3 Cache of 256MB	• 768GB Total RAM • 24x 32GB DDR5 6000MHz	• 1 x 480GB SATA Read Intensive • 1 InfiniBand HDR100/Ethernet 100Gb 1-port adapter
ANSYS LS-DYNA	• EG22-2UDP893 • 2x EPYC 9555 CPUs • 128 Cores Per Node • 3.20 GHz I 4.20 GHz • L3 Cache of 256MB	• 1.5TB Total RAM • 24x 32GB DDR5 6000MHz	• 2 x 960GB NVMe (RAID 0) Read Intensive for local scratch • 1 InfiniBand HDR100/Ethernet 100Gb 1-port adapter
ANSYS MECHANICAL	• EG22-2UDP893 • 2x EPYC 9555 CPUs • 128 Cores Per Node • 3.20 GHz I 4.20 GHz • L3 Cache of 256MB	• 1.5TB Total RAM • 24x 64GB DDR5 6000MHz	• 1 x 480GB SATA Read Intensive • 1 InfiniBand HDR100/Ethernet 100Gb 1-port adapter

AVAILABLE ON KOI COMPUTERS'

FEDERAL GOVERNMENT CONTRACTS

NITAAC CIO-CS | SEWP V | GSA Schedule | 2GIT

BENEFITS

AMD CPU-BASED KOI SERVERS WITH ANSYS

Validated and optimized
solutions with compute, storage, software, services, and TAA & FIPS Compliance.

On-site install, start-up, and integration services
delivered by Koi Computers, an AMD EPYC™ Elite Partner.

Remote management
is available along with Cluster Management Solutions.

LET US HELP YOU SIZE UP THE RIGHT HPC CLUSTER TODAY!

CONTACT US TO GET YOUR FREE CUSTOM QUOTE

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