# intel

# ADVANCE YOUR TECHNOLOGY. ACCELERATE YOUR WORK.

## INTEL® XEON® PROCESSOR-BASED WORKSTATIONS

The best workstations are tuned for the jobs they need to do. Here's what you need to know when considering your next workstation.

## CHOOSE THE BEST INTEL® XEON PROCESSORS FOR YOUR NEEDS

### INTEL® XEON® E PROCESSORS[1,3]

Essential performance for entry workstations with certified processor graphics

UP TO **5 GHZ**   UP TO **8 CORES**

**FEATURING**

UP TO **16 CPU** PCIe* 3.0 Lanes
UP TO **128 GB DDR4** ECC Memory
**2** MEMORY CHANNELS
INTEL® UHD GRAPHICS P630

2D and Entry 3D CAD
**USAGES**
Game Development

### INTEL® XEON® W-2000 PROCESSORS

Performance-optimized for increasing workload demands

UP TO **4.5 GHZ**   UP TO **18 CORES**

**FEATURING**

UP TO **48 CPU** PCIe 3.0 Lanes
UP TO **512 GB DDR4** ECC Memory
**4** MEMORY CHANNELS

Advanced Content Creation
**USAGES**
Advanced 3D and Rendering, Small AI Workloads

### INTEL® XEON® W-3000 PROCESSORS[1]

Outstanding single-socket performance for heavy workloads

UP TO **4.5 GHZ**   UP TO **28 CORES**

**FEATURING**

UP TO **64 CPU** PCIe 3.0 Lanes
UP TO **1.5 TB DDR4** ECC Memory
**6** MEMORY CHANNELS

High End Rendering
**USAGES**
Moderate AI Workloads
8K Video Editing

### INTEL® XEON® SCALABLE PROCESSORS

Scalable performance for the most data-demanding workloads

UP TO **4.4 GHZ**   UP TO **56 CORES**[2]

**FEATURING**

UP TO **96 CPU** PCIe 3.0 Lanes[2]
UP TO **3 TB DDR4** ECC Memory[2]
UP TO **12** MEMORY CHANNELS[2]
SUPPORT FOR INTEL® OPTANE™ DC PERSISTENT MEMORY

Advanced AI Workloads
**USAGES**
Technical Computing, Data Science Applications

## INTEL® XEON® PROCESSORS BUILD GREAT WORKSTATIONS

### PERFORMANCE
- Choice of core counts and speeds to address workload needs
- Support Intel® Turbo Boost 2.0 and Turbo Boost Max 3.0[4]
- Support for Thunderbolt™ 3.0 technology[4]

### DATA INTEGRITY
**ERROR CORRECTING CODE (ECC) MEMORY**
Delivers a stable engineering and design platform.
**RELIABILITY, AVAILABILITY, & SERVICEABILITY (RAS)**
Expanded capabilities to offer maximum data resiliency.

### CERTIFICATIONS
Intel Xeon processors and Intel Xeon processor-based workstations with ISV certifications fully support software features for trusted, reliable operations.

### SECURITY/MANAGEABILITY
**VIA THE INTEL vPRO® PLATFORM, WHICH OFFERS:**
- Protection with hardware-enhanced security features
- World-class remote maintenance and wireless device manageability

## BALANCED PERFORMANCE – SPEED VS. CORES

What you do will drive what you need—faster CPU or more cores. Understanding your workloads helps you achieve the best balance for productive performance.

**SERIAL = FASTER CPU**

**PARALLEL = MORE CORES**

UP TO **5 GHZ**
CAD/CAE projects, video transitions, and other objects are often completed one step at a time. The faster the CPU, the faster the task gets done.
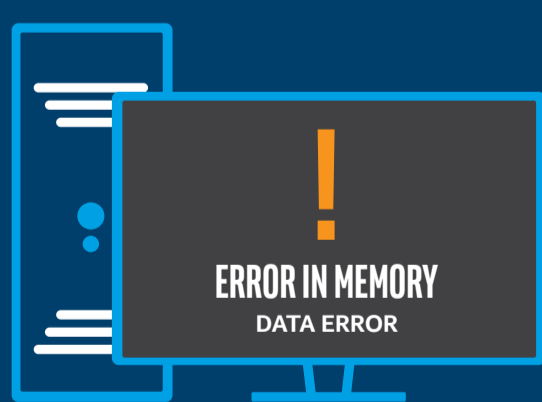
UP TO **56 CORES**[2]
Visualization, simulation, technical computing, and other workloads maximize performance with more cores.
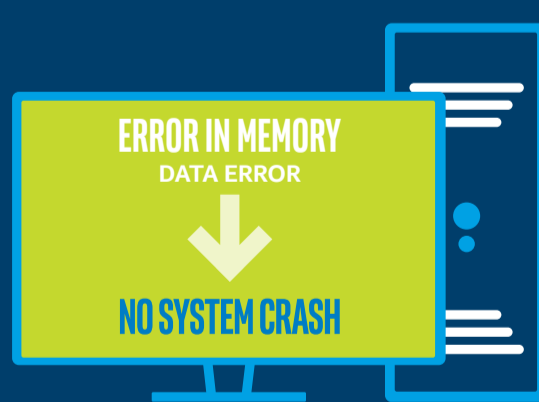
## END COSTLY CRASHES WITH ECC

Support for error-correcting code (ECC) memory catches and fixes data errors before they affect processing to maintain data, calculation, and model integrity and to keep you working.

**!**
ERROR IN MEMORY
DATA ERROR

**ADD IN ECC MEMORY**

ERROR IN MEMORY
DATA ERROR
**NO SYSTEM CRASH**

Workstation without Intel Xeon Processor

Workstation with Intel Xeon Processor

## CERTIFIED FOR DEMANDING WORKLOADS

An ideal marriage between hardware and software, **Intel Xeon E processors with Intel® UHD Graphics P630** boast several application certifications to help ensure reliability and compatibility for product features.

**ELIMINATE DISCRETE GRAPHICS CARDS**

Tested and Certified with:
**INTEL UHD GRAPHICS**

## INTEL vPRO® PLATFORM – DESIGNED FOR BUSINESS

### intel vPro® Platform

Support for **Intel vPro platform** to leverage built-in hardware-enhanced security and manageability capabilities. Helps protect data, keys, and identities. Aids maximizing uptime, reliability, and stability.

## FIND YOUR IDEAL WORKSTATION

For more information about Intel Xeon processor-based workstations and processors, visit **www.intel.com/workstations**.