**SUCCESS BRIEF**
**Intel® Xeon® processor 7500 series**
Enterprise Server
Cloud Computing/Virtualization

# Indiana University Unifies Infrastructure

**Wholesale refresh with Intel® Xeon® processor 7560 increases capacity and brings enterprise workloads into the cloud**

INDIANA UNIVERSITY

"I have a mainframe background, so my expectations are high in the area of reliability, availability, and serviceability. IU is proof positive that Intel® X86 servers are ready for mission-critical applications and workloads. All our enterprise applications are virtualized and running on Intel® Nehalem-EX technology."

*– Mike Floyd*
*Chief System Architect*
*Indiana University*

## COMPANY

Indiana University (IU) is an academic leader that enrolls more than 100,000 students at eight campuses. The university community includes nearly 20,000 faculty and staff, more than half a million alumni, and over 200 research centers and institutes. The annual operating budget is USD 2.7 billion.

## CHALLENGE

With virtual machines (VMs) growing at an average 6 percent per month, IU's University Information Technology Services (UITS) department wanted to refresh its virtualized infrastructure to obtain higher performance and capacity. UITS also needed outstanding stability to move mission-critical databases, services, and applications off costly proprietary platforms and into a unified cloud.

## SOLUTION

UITS committed to what its leaders call "ruthless standardization." It refreshed virtually all the university's server infrastructure and now runs approximately 1,600 VMs on an internal cloud of 65 Dell PowerEdge* R810 servers with the Intel® Xeon® processor 7560 and VMware vSphere* 4 Enterprise Plus. Accomplished in two months, the transition was invisible to users. The cloud includes 8 TB of DDR3 RAM, offers access to nearly half a petabyte of storage, and runs more than 100 Tier 1 Oracle Database* 11g instances.

## BENEFITS

UITS says its new cloud infrastructure provides 40 percent more VM capacity and 30 percent more performance in 20 percent less rack space than its previous platforms. The cloud improves responsiveness for end users and gives UITS greater flexibility to meet the rapidly evolving needs of a leading research university. With a single platform running everything from email to student registration, UITS staff can increase their expertise and work more efficiently. The refresh freed up so much data center space that the university now houses disaster recovery systems for a variety of state offices.

Find a solution that is right for your organization. Contact your Intel representative or visit the Reference Room at **www.intel.com/references.**

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