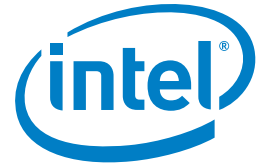


## CASE STUDY

### Intel® Xeon® processor 5600 family

Enterprise Server  
Virtualization  
Energy Efficiency



# Raising the Bar at Paul Hastings

## Leading law firm reduces risks and carbon footprint with Intel® Xeon® processor X5670

Attorneys strive to reduce risk for their clients, so it makes sense that Paul, Hastings, Janofsky & Walker LLP (Paul Hastings), a top global law firm, would make risk mitigation a cornerstone of its IT strategy. Searl Tate, director of engineering at Paul Hastings, says simplifying the firm's server and storage infrastructure with the Intel® Xeon® processor 5600 family helps avoid service interruptions and safeguard revenue streams while contributing to a 57 percent reduction in energy consumption.



## Paul Hastings

"By giving us 50 percent more physical cores than the previous generation, along with the increased memory capacity and bandwidth, the six-core Intel® Xeon® processor has made a big difference in our ability to deliver higher virtual machine density per blade and higher performance, particularly for our I/O-challenged applications."

– Searl Tate  
Director of Engineering  
Paul Hastings

### CHALLENGE

▪ **Modernize the data center for growth and sustainability.** With the firm steadily growing, Paul Hastings' IT leaders wanted to simplify their distributed infrastructure, increase density, and reduce energy consumption.

### SOLUTION

▪ **Simplify with standard IT building blocks.** Paul Hastings standardizes on HP ProLiant\* C7000 chassis, BL460c blades with dual-socket, six-core Intel® Xeon® processors X5670, Microsoft Windows\* Server 2008, and VMware vSphere\* ESX4.1. The firm also relies on Intel Xeon processor-based storage and networking technologies from Cisco, NetApp, and Riverbed Technologies.

### IMPACT

- **Dense, cost-effective infrastructure.** Using its standards-based building blocks, Paul Hastings has virtualized 80 percent of its infrastructure across the enterprise and opened a state-of-the-art, legacy-free production facility that reduces administrative costs and floor space requirements.
- **Nonstop service.** The simplified infrastructure increases productivity, lowers risk, and protects revenue streams by delivering excellent performance and uninterrupted access to essential software.
- **Greener enterprise.** Virtualization and energy-efficient data center technologies are helping Paul Hastings reduce energy consumption by 57 percent and utility costs by an estimated USD 200,000 annually.

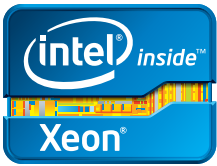
### Critical Challenge: Uninterrupted Access

For a thriving law firm with corporate customers around the world, document management, collaboration, and hour tracking are critical tasks. Uninterrupted access to IT systems is essential.

"Risk mitigation is a central theme in our IT strategy," says Tate. "If systems are down, our attorneys can't do their work and capture their billable hours, so we place a premium on providing uninterrupted access to our IT infrastructure. We have

an expectation that an attorney can have quick access to any document that exists anywhere. Our enterprise runs on the Intel Xeon processor because it helps us do that."

HP blade servers based on the Intel Xeon processor run the firm's Autonomy iManage\* document management system, Microsoft SQL Server\* 2008, Microsoft Exchange\* email services, and Microsoft Office SharePoint\* Server for collaboration and communication. The processor also helps manage active



## Energy-efficient technologies help Paul Hastings save hundreds of thousands of dollars annually

central repositories that have grown to 100 million documents and more than half a petabyte of storage. Attorneys and staff use Dell® PCs and Lenovo® laptops based on the Intel® Core® i5 vPro™ processor.

### Higher Core Count Supports Growth

Paul Hastings' IT team has virtualized the firm's infrastructure environment over the last three years to control operating costs, reduce server and storage sprawl, and manage ongoing growth at its 18 offices around the world. "We have a mandate to keep pace with our rapid business-side growth without expanding our technology one-for-one," Tate says.

To fulfill that mandate, Paul Hastings has established a new enterprise computing standard that delivers high density and performance. "We have redefined our standard as a seventh-generation HP blade that has a pair of six-core Intel Xeon processors 5600 family and 84 GB of memory," Tate says. "Those are our building blocks now—our Legos\*."

Paul Hastings has a local data center for each of its 18 offices, including hub centers in Los Angeles, New York, Paris, and Hong Kong. In 2010, the firm opened a new, legacy-free production facility in downtown Los Angeles that Tate calls "the archetype for future data center builds."

Rather than shifting existing systems into the facility, Tate's team used its new enterprise building-block architecture as the basis for the center. The facility houses three HP® C7000 server chassis, each with 16 BL460c blades with dual-socket, six-core Intel Xeon processors X5670 and a total of 1.2 TB of RAM per chassis. Other parts of the infrastructure are seventh-generation HP DL380\* servers that also use the Intel Xeon processor X5670.

The new center also uses flagship Cisco Catalyst\* LAN switching technologies with Intel Xeon processors 5600 family and a storage architecture designed to reduce duplicate data and increase density. New NetApp\* FAS6280 filers with the Intel Xeon processor X5670 enhance scalability, availability, and flexibility.

The Intel Xeon processor X5670 is helping Paul Hastings keep its IT capacity ahead of the firm's business growth. "Historically, memory has been the bottleneck," says Tate. "By giving us 50 percent more physical cores than the previous generation, along with the increased memory capacity and bandwidth, the six-core Intel Xeon processor has made a big difference in our ability to deliver higher virtual machine density per blade and higher performance, particularly for our I/O-challenged applications."

### SPOTLIGHT ON PAUL HASTINGS

Founded in 1951, Paul, Hastings, Janofsky & Walker LLP is a leading global law firm with 18 offices in major business centers across Asia, Europe, and the U.S. Paul Hastings provides innovative legal solutions to financial institutions and Fortune 500 companies, and has the global reach and extensive capabilities to deliver personalized service wherever clients' needs take them. In December 2010, Financial Times US Innovative Lawyers Report ranked Paul Hastings among the top five law firms in the nation.<sup>1</sup>

### Increased Resilience and a Smaller Footprint

The Intel Xeon processor X5670 supports the IT team's goals for density and energy efficiency. "The floor space for the new data center is a fraction of the former size," Tate says. "In addition, the center is so much greener and more energy efficient that we're saving hundreds of thousands of dollars annually on power."

Paul Hastings' new co-location facility operates in full production mode and, along with the virtualized infrastructure, adds a layer of resilience to the firm's information architecture. "What's key for us is the stability of our infrastructure," says Tate. "With multinode clusters for virtualization, we just don't have outages. This protects our revenue stream by providing uninterrupted access to the tools that directly contribute to revenue generation. That's the real story, and the Intel® processors are an important part of that story."

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<sup>1</sup> <http://www.paulhastings.com/NewsDetail.aspx?NewsId=13735>

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