



Clear patient benefits

Intel® Xeon® processor E5 family supports diagnoses from 3D medical images



Company

Part of Royal Philips Electronics, Philips Healthcare accounts for nearly 29 percent of overall sales, making it the company's second-largest product division after Consumer Lifestyle. Philips Healthcare offerings are organized across five business areas: imaging systems, clinical care systems, home healthcare solutions, healthcare informatics and patient monitoring. It has a presence in over 60 countries around the globe.

Challenge

Philips Healthcare's IntelliSpace Portal* enables clinicians to review and analyze 3D medical images, make diagnoses and collaborate with colleagues from virtually any workspace within the enterprise. Applications include cardiac analysis, virtual colonoscopy, routine computed tomography angiograms (CTA), tumor tracking and coronary plaque analysis. To produce and manipulate high-quality 3D images, the IntelliSpace Portal requires huge amounts of processing power, particularly to render these in real-time.

Solution

Philips Healthcare was eager to analyze the performance benefits of the Intel® Xeon® processor E5 family. For a proof-of-concept, the Philips Software team built a special 3D rendering algorithm, which benchmarked the performance of the Intel Xeon processor E5 family with that of the previous-generation Intel® Xeon® processor 5600 series. It found that the latest Intel Xeon processor E5 family was able to process the 3D rendering algorithm 32 percent faster in all cases¹.

Benefits

Faster rendering of the 3D images displayed through the IntelliSpace Portal improves the user experience. Clinicians are now able to manipulate the 3D images more easily, enabling them to view a patient's heart, or other organ, from many different perspectives without image degradation. This improved rendering rate allows clinicians to make quicker, and more informed diagnoses. In turn, this improves the overall level of care they are able to offer patients across magnetic resonance (MR), computed tomography (CT) and nuclear medicine (NM).

Find the solution that's right for your organization. Contact your Intel representative, visit Intel's Business Success Stories for IT Managers (www.intel.co.uk/Itcasestudies) or explore the Intel.com IT Center (www.intel.com/itcenter).

PHILIPS

"Our IntelliSpace Portal workspace shows a 32 percent performance improvement when running on the latest Intel® Xeon® processor E5 family. Delivering enterprise-class, real-time image processing is a compute-intensive task. Intel Xeon processor E5 family is up to the task, enabling us to further advance our market-segment leading position."

Baruch Sabbah
Programs Director
Imaging Clinical Applications and Platforms
Philips Healthcare

