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## Case Study

Cloud Computing

Intel® Xeon® Processor

# Powerful “UFIDA WECOO Cloud” on Intel® Xeon® processor 7500 Series

## Overview

UFIDA\* WECOO is a corporate entity of UFIDA, the biggest ERP software vendor in APAC and a leading management SaaS vendor. In the PRC, WECOO launched July 8, 2008, and provided the necessary network infrastructure; software and hardware platforms for SMBs. WECOO also provided implementation and maintenance services. Since its successful launch, WECOO users have increased; the increased TCO has brought significant challenges to UFIDA WECOO. Concurrently, end-users have defined more service requirements; they want dedicated resources and flexible SLA choices. To lower operational costs and provide better service to end-users, Intel and UFIDA have worked together closely, using cloud computing technology to access the UFIDA WECOO Cloud, and have successfully built new IT infrastructure and business models.

UFIDA WECOO is based on SaaS theory and models, eg, to use the

internet as the “channel”, integrating software, maintenance and service, and on-demand offerings, to the enterprise. This service is provided on demand and charged monthly. It provides highly efficient, low cost and low risk information services, making it possible for SMB to rapidly implement IT solutions with low prices, improved management efficiency and effectiveness, and support for SMB’s fast growth.

## Intel® Xeon® processor 7500 series

UFIDA WECOO has been tuned and optimized to take advantage of the Intel® Xeon® processor 7500 series, which delivers the biggest performance increase ever for the Intel Xeon processor family. Compared with the previous generation, these new processors provide:

- More cores (eight versus six) and more execution threads (sixteen versus six)
- Massive increases in system bandwidth with Intel® QuickPath Interconnect Technology; Higher memory bandwidth and capacity with two integrated memory controllers and the Intel® Scalable Memory Interconnect
- Performance on demand for peak workloads, with Intel® Turbo Boost Technology.
- Next-generation Intel Virtualization Technology, including Intel® Extended Page Tables and Intel® Virtualization Technology for Directed I/O (Intel® VT-d), which enables near-native I/O performance in virtual machines

### Performance Test Configuration

Hardware Configuration		
Platform	Intel® Software Development Platform	Intel® Software Development Platform
Processor	Intel® Xeon® processor 7500 series	Intel® Xeon® processor 7400 series
Processor Details	2.27 GHz	2.67 GHz
Cores per Processor	8	6
Intel® Hyper-Threading Technology	Yes	N/A
Intel® Turbo Boost Technology	Yes	N/A
NUMA	Yes	N/A
Intel® Extended Page Tables	Yes	N/A
Intel® VT-d	Yes	N/A
Memory	64 GB (16 x 4 GB)	64 GB (32 x 2 GB)
Memory Details	DDR3-1066	Fully-Buffered DDR2 667
Software Configuration		
Hypervisor	VMware ESX Server* build #186700	VMware ESX Server* build #186700
Guest OS	Red Hat Enterprise Linux* 5.4 x86-64	Red Hat Enterprise Linux* 5.4 x86-64

## Performance Results

Using the Intel® Xeon® processor 7500 series based platform, based on Intel® Virtualization Technology, UFIDA WECOO achieved major performance and performance per watt improvements versus the previous generation Intel® Xeon® processor 7400 series based platform, including:

- Up to 2.83X better performance
- Up to 3.03X better performance per watt
- Saving 15%-24% solution deployment and destroy time
- Saving 12.5% live migration time

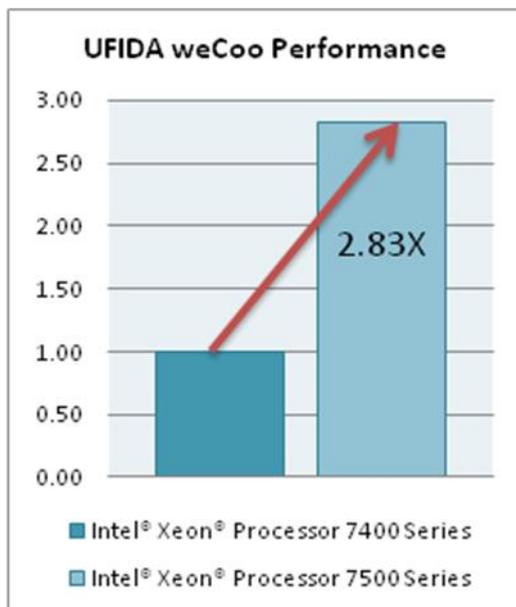


Figure 1: Comparing to previous generation Intel® Xeon® processor 7400 series based platform, UFIDA WECOO on Intel® Xeon® processor 7400 series based platform gains 2.83X better performance

It's really amazing for UFIDA WECOO Cloud to get 2.83x performance boost and 3.03 performance per watt boost on the Intel® Xeon® Processor 7500 Series, based on Intel® Virtualization Technology. As a SaaS, it's really important to enhance our system ability. The amazing results show that the new Intel® Xeon® Processor 7500 Series is certainly one of the most preferable platforms for our product and high performance will certainly impress our customers greatly.”,

Chen Shuichao  
UFIDA online R&D Director

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Hyper-Threading Technology requires a computer system with a processor supporting HT Technology and an HT Technology-enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support HT Technology, see [here](#).