ClearPath Connection

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A quarterly newsletter for Unisys ClearPath customers

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ClearPath Connection

<div style="text-align:right">**UNISYS**
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Major Announcement:
ClearPath 2009 –
Mastering the Unexpected

We are happy to announce many significant **NEW** ClearPath platforms and capabilities for 2009. And, this issue of ClearPath Connection is dedicated to bringing you more details about everything that's **NEW** and exciting, including:

• **NEW** <u>Libra 780 and 790 Servers</u> – the latest CMOS-based Libra product line positioned at the high-end

• **NEW** <u>Dorado 4050 Servers</u> – our latest entry-level OS 2200 based servers featuring Unisys Next-Generation Server Architecture and Intel® processors

• **NEW** <u>Dorado 740 and 750 Servers</u> – new mid-range Dorado systems that employ CMOS technology

• **NEW** <u>OS 2200 12.0</u> and <u>MCP 12.1</u> – major operating environment releases with new functionality in the key areas of application development and modernization, data center transformation, and security

• **NEW** <u>specialty engines</u> – the ClearPath OS 2200 QProcessor for high-performance WebSphere MQ messaging and ClearPath OS 2200 JProcessor for enterprise-class Java

This major announcement is about *delivering*. Delivering on our commitments and strategy for the ClearPath Family of Servers. Delivering a second wave of new platforms, operating environments, and capabilities in just eight months. And, delivering capabilities that help your organization achieve greater levels of agility and innovation with your ClearPath Servers.

ClearPath 2009 – everything you expect from Unisys and much more. Read on to get more information about what's **NEW** for ClearPath customers in 2009. And, check the <u>eCommunity</u> for details about webcasts and the new platforms, software, and solutions.

Looking for more about development tools from Unisys? <u>Sign up for Developing *Agility*</u>, a quarterly newsletter dedicated to helping organizations obtain maximum value from Agile Business Suite (AB Suite) and Enterprise Application Environment (EAE).

Back to the Future: ClearPath Innovation and Invention

By Jim Thompson, Vice President, Engineering, Unisys Systems & Technology

Engineering is all about innovation and invention. Everything we do is designed to deliver the best technologies available, in the most transparent way possible. It may seem like a paradox: attempting to drive disruptive evolutionary technologies into our products, while at the same time preserving your investment in existing platforms, storage, and software solutions. We see it as an interesting challenge – protecting the investments of the past while providing the best the future has to offer – and it's one we take to heart.

The past twelve months have been busy in this regard, with the introduction of new servers and software at a tremendous pace. From late 2008 through mid-2009, we will have refreshed the entire ClearPath Dorado and Libra product lines. We've also delivered the second wave of ClearPath "NextGen" platforms – offering the same OS 2200 and MCP experience you expect on a completely new, yet common, hardware architecture comprised of the latest technology from Intel® and other partners. At the same time, we've updated the high-end Dorado and Libra platforms with the introduction of the "700s," which provide impressive new capabilities and levels of performance never seen before in the ClearPath server line. We've also expanded our specialty engine family to include Dorado and Libra platforms, offering such new functionality as high-performance message queuing in the ClearPath OS 2200 QProcessor. Finally, we've provided significant software releases for both our OS 2200 and MCP operating environments.

I encourage you to read the other articles in this issue of ClearPath Connection, which cover the new products that we recently announced.

The Journey to NextGen

In the remainder of this article, I'd like to share a bit of the vision and thinking that went into our latest offerings and provide a checkpoint as to where we stand in our journey with the Next-Generation Server Architecture.

We have several independent factors at play here.

On one hand, we are working to replace the underlying ClearPath platforms with industry-standard, rather than proprietary, hardware. While a difficult task in and of itself, we also need to ensure we don't compromise the system characteristics that make ClearPath, ClearPath. In other words, we need to protect the "-ities" as we call them in engineering – reliability, availability, and scalability – which are the enterprise-class characteristics that define the ClearPath line. Support for business-critical operations is our heritage and our creed, and while preserving them may be difficult, it is necessary work. In some respects, this kind of work amounts to "churning the infrastructure," and we know that it alone won't be enough to keep ClearPath viable in the marketplace. Also, keep in mind that when we do this successfully, you don't even notice it.

On the other hand, we're investigating how to package initiatives and strategies like Real-Time Infrastructure (RTI) and Cloud Computing with ClearPath in a way that is seamless, well-integrated, and useful, so they provide you with exciting, new opportunities. We are also constantly looking at market developments and selecting other technologies that have promise. For instance, our ePortal offering makes it possible to easily integrate contemporary mobile devices, like BlackBerrys or iPhones, with our ClearPath systems with little or no programming. Of course, we also offer options for the integration of a comprehensive PDA or web presentation, depending on your preferences. >>

As we continue our "NextGen" journey, we will deliver platforms with greater performance and functionality and we will do so seamlessly – replacing the underlying architecture of today's ClearPath Dorado and Libra platforms in a *completely transparent manner*. The application systems and solutions you depend on every day will continue to run as they have, while leveraging new, cutting-edge technologies behind the scenes. This is all possible because of our focus on architecture. We have a very deliberate way of layering hardware and software so that they can be expanded, replaced, or eliminated with little or no impact on the other layers. That means the outer layer will remain familiar, even as we evolve the inner layers in invisible ways and continue to provide you with an enterprise-class experience that effectively leverages both legacy and innovation.

Through innovation and invention, we have created a foundation for ClearPath customers that will continue to provide the business-critical attributes you need with the latest innovations to take your organization into the future. This really is "Back to the Future" – investment in innovation and invention has been native to ClearPath throughout its history. It will continue into the future to help ensure that your unique solutions will address growing organizational requirements.

As we continue our "NextGen" journey, we will deliver platforms with greater performance and functionality and we will do so seamlessly – replacing the underlying architecture of today's ClearPath Dorado and Libra platforms in a completely transparent manner.

ClearPath OS 2200 Release 12.0 Delivers New Capabilities

Whether your interest is application development, data center operations, security, or any other area within IT, the latest release of the ClearPath OS 2200 operating environment offers **NEW** capabilities that are sure to make you more productive – and provide real value to your organization.

OS 2200 Release 12.0 is a major update with more than 100 software enhancements. Slated for general customer availability in June 2009, the release is available for all currently supported ClearPath Dorado servers.

This article reviews just a few of the major **NEW** features in OS 2200 Release 12.0. For a full debrief on the release, download the Software Release Announcement from the eCommunity or Unisys Support web sites.

OS 2200

Advanced Application Development

The core business applications running on your ClearPath servers represent a significant long-term investment – and an invaluable source of business logic and data. OS 2200 Release 12.0 offers new and updated capabilities that help your organization:
• Extend and enhance your current applications
• Embrace modern, Open Source programming tools and models
• Bring new developers up to speed more quickly
• Enhance interoperability with services running on other platforms, within and outside your network

Let's take a look at some of the enhancements in the areas of Java, database programming, and the Eclipse IDE.

Java execution environment enhancements
Java has been available in your secure, high-performance ClearPath OS 2200 environment for quite some time now. But we're not resting on our laurels – and Release 12.0 is the proof. Consider the following new and upgraded Java support features:
• Virtual Machine for the Java™ Platform on ClearPath OS 2200 level 4R2 provides an updated version of the Sun JDK 5.0 offering new standard features, faster startup, and improved performance
• DMS Java Connector XA compliance
• All OS 2200 Java Connectors (=Resource Adapters) are now Sun JCA 1.5 compliant – for example supporting outbound communication from TIP/ HVTIP, Open Distributed Transaction Processing (DTP) to external Java applications
• Upgrades to JBoss Enterprise Application Platform (EAP) to include JBoss Application Server™ (AS) level 4.3.0 – while maintaining close integration with OS 2200, including such key new features as:
 – Improved functionality, scalability, and performance for Java EE applications
 – Full support for Java EE Web Services and Service-Oriented Architecture (SOA), including JAX-RPC and JAX-WS API support
 – New JBoss Java Transaction API support >>

- RDMS-JDBC performance, maintenance, and diagnostic improvements
- Internal optimizations when using the J2EE Connector for DTP Resource Adapter (RA) and calling XATMI services from JBoss or using the DMS RA from JBoss within the same OS 2200 environment
- New ClearPath OS 2200 JProcessor specialty engine (featured in another article in this issue of ClearPath Connection)

Database programming

When it comes to optimizing database development, OS 2200 Release 12.0 has much to offer, including:

- The ability for a DBA to use new SQL syntax to alert RDMS of the need to append records to the end of a table, which, in turn, causes RDMS to dynamically precondition data files and indexes – and provides increased concurrency and reduced opportunity for deadlocks
- Introduction of the ability to define and manage RDMS security by roles, which streamlines security policy management
- Implementation of such SQL standard features as:
  - FETCH ABSOLUTE and FETCH RELATIVE to facilitate efficient traversal of CURSORs in stateless transactions
  - DEFAULT keyword to indicate a column default value for ease of coding, especially when using automated SQL generation tools

ClearPath OS 2200 IDE for Eclipse enhancements

The ClearPath OS 2200 Integrated Development Environment (IDE) *for Eclipse*™ has been available for some time (and was featured in the December 2008 issue of ClearPath Connection). The 12.0 release offers many important enhancements, including:

- Upgrade to the latest Eclipse release 3.4.1 (a.k.a. Ganymede), with such new standard features as provisioning, security, modeling tools, and additional support for a SOA
- An interface to PADS, which enables interactive debugging of UCS COBOL and other UCS programs with access to breakpoints, variable values, step into and step over, etc.
- Telnet session support for line editing commands and national character substitution
- Scans for error messages from ACOB compiles
- Inclusion of the Eclipse Data Tools plug-in that offers RDMS developers:
  - Smart SQL editing through code completion, formatting, and dialect specialization
  - The ability to execute and debug both SQL and stored procedures for rapid development of the data access portions of an application

CIFS File Sharing Between ClearPath and Other Systems

The Common Internet File System (CIFS) specification is a well-known enabler of shared access to files between nodes on a network. With CIFS, file sharing between ClearPath systems and other operating environments is greatly simplified, making it easier than ever to integrate OS 2200 applications and data across a network. CIFS for OS 2200 allows access to OS 2200 files via standard Internet protocols, interoperating with Server Message Block (SMB) clients, such as Microsoft® Windows® Explorer.

With OS 2200 Release 12.0 comes more enhancements to CIFS, including expanded functionality, increased stability, better throughput, improved diagnostics, simplified operation, and improved interoperability. >>

Security

In today's world, the security of your systems, applications, and data has never been more important – or more closely scrutinized. OS 2200 Release 12.0 continues Unisys tradition of providing the security features needed to protect your organization. In particular, this latest release includes enhanced data privacy via:

• Support for the industry-standard network data protection protocols Secure Sockets Layer (SSL) and Transport Layer Security (TLS) in more OS 2200 products, including COMAPI, cpFTP, J2EE-CON-OS2200, and RDMS-JDBC

• Telnet enhancements to provide for SSL- and TLS-secured connections, which prevent third parties from reading session data, user-ids, and passwords

• The ability to configure both RSA and DSA cipher suites, which provides added flexibility for application security

• Updates to the Web Transaction Server for OS 2200 (Web TS) to use SSL and TLS cryptographic protocols in CPComm, which improve performance and provide for the use of stronger ciphers, such as the Advanced Encryption Standard (AES)

Get Started with ClearPath OS 2200 Release 12.0 Today

With new capabilities that improve nearly every area of your IT infrastructure – from leveraging OS 2200 applications and data in a SOA to expanding your use of Open Source solutions to protecting sensitive data and systems – OS 2200 Release 12.0 offers real business value to organizations of every size and in every industry.

To learn more about what OS 2200 Release 12.0 has to offer, visit the eCommunity.

OS 2200 Release 12.0 is a major update with more than 100 software enhancements. Slated for general customer availability in June 2009, the release is available for all currently supported ClearPath Dorado servers.

Java and WebSphere MQ Specialty Engines Available for OS 2200 Systems

OS 2200

It is our pleasure to introduce two **NEW** specialty engines for ClearPath OS 2200 environments – Unisys ClearPath OS 2200 QProcessor and Unisys ClearPath OS 2200 JProcessor.

Unisys ClearPath OS 2200 engineers have outdone themselves with these specialty engines – combining true innovation and invention with solid technical advantages, including:

- Tight integration with ClearPath OS 2200 transactions, console logging, and auditing, which is provided via our Interconnect software – and simply cannot be matched by any other platform or device

- Bullet-proof ClearPath OS 2200 security that follows the very same security standards as ClearPath OS 2200 systems, was designed by Unisys ClearPath security experts, and is built into the specialty engine firmware

- Unique ClearPath capabilities, such as optimized communication configuration, file handling, build streams, SOLAR installs, and invaluable examples and how-to guides fine-tuned for ClearPath environments

- Access to the same Unisys support as your ClearPath mainframes

These specialty engines offer an exciting new dimension to the ClearPath architectural evolution – one that incorporates industry-standard technologies and offers consistently higher performance in such key areas as web enablement, Web Services, messaging, mobile device integration, and Java.

Enterprise-Class Java: ClearPath OS 2200 JProcessor

The OS 2200 JProcessor is a secure, cost-effective environment designed exclusively for Java applications running under the control of the OS 2200 Operating System on a ClearPath Dorado Server. It supports the Java Platform, Standard Edition (Java SE), runtime environment™ – which provides the libraries, Java Virtual Machine (JVM™), and other components to run portable applets and applications written in Java. The OS 2200 JProcessor also supports the Java Platform, Enterprise Edition (Java EE) – which is the industry standard for implementing an enterprise-class SOA and next-generation web applications.

The OS 2200 JProcessor fully integrates into your ClearPath Dorado Server to provide a robust, secure runtime environment for Java applications. With this new specialty engine, your organization can experience all the cost and flexibility advantages of Java – without sacrificing performance, reliability, or security.

And, it's easy to get started. We offer a SOLAR install of the OS 2200 JProcessor software. There's no need to make any source code changes to your existing Java applications and your current JVM can co-exist with the OS 2200 JProcessor JVM. In addition, the solution continues the use of JBoss AS for integration with Open DTP.

Whether you are an experienced Java shop or just getting started, the OS 2200 JProcessor is the ideal way to marry the advantages of the OS 2200 Operating System with those of Java development tools.

The OS 2200 JProcessor is supported on Dorado 4000, Dorado 300, and Dorado 700 Servers. >>

High Performance WebSphere MQ: ClearPath OS 2200 QProcessor

Designed exclusively for WebSphere MQ applications running under the control of the OS 2200 operating environment on a ClearPath Dorado Server, the OS 2200 QProcessor brings new levels of security and cost savings to the table. Like the OS 2200 JProcessor, this specialty engine takes advantage of the performance, reliability, and security of the OS 2200 Operating System.

In addition to the industry-standard features of WebSphere MQ, the OS 2200 QProcessor offers an added level of integration with OS 2200 transactions and databases. And, no application changes are required to migrate from version 5.2 to 6.0 – delivering seamless compatibility.

Whether you are new to WebSphere MQ or are already using MQSeries or WebSphere MQ in your enterprise, the OS 2200 QProcessor is an excellent way to have your OS 2200 platform participate in message-oriented integration with other systems. WebSphere MQ provides for bi-directional message flow into and out of OS 2200 systems, fully integrated, transactionally, with OS 2200 database updates.

The OS 2200 QProcessor is supported on Dorado 4000, Dorado 300, and Dorado 700 Servers.

Fully Integrated and Enterprise-Ready Solutions

Both the OS 2200 JProcessor and QProcessor work in combination with the OS 2200 processors on ClearPath Dorado servers. These specialty engines use an embedded operating system running on an Intel® processor-based system.

We know how important reliability, availability, and serviceability (RAS) are to ClearPath Dorado customers, so these specialty engines include:
• Best-in-class and proven hardware, including chassis, mainboard, processor, memory, and storage
• Field replacement of the entire unit for superior quality and mean-time-to-repair
• Tuned, single-purpose embedded operating system
• Straightforward setup and configuration

To learn more about the OS 2200 JProcessor and QProcessor specialty engines, visit the eCommunity.

Enriching the Enterprise: New ClearPath Dorado 740 and Dorado 750 Servers

OS 2200

Meet two NEW members of the ClearPath Dorado Series of mainframes – the ClearPath Dorado 740 and 750 Server lines. This completes a full refresh of the Dorado family of servers in just nine months.

As evidence of our continuing commitment to ClearPath products, we are proud to announce new mid-range CMOS-based systems to support mission-critical workloads and provide the high availability and absolute data and transaction integrity that you expect from a Unisys mainframe. What's more, these newest members of the Dorado family deliver maximum flexibility with a choice of business models:

• The ClearPath Dorado 740 Servers offer a traditional business model with Capacity on Demand options
• The ClearPath Dorado 750 Servers offer Pay-for-Use business models with metering technology

ClearPath Dorado 740 and 750 Server lines are ideal, cost-effective options for organizations looking to upgrade their current OS 2200 platforms.

Key Features At-a-Glance

Improved processor performance
The ClearPath Dorado 740 and 750 Servers deliver single thread performance of up to 450 MIPS with a single image performance range of 150 MIPS at the entry level to a maximum single image performance of 1,000 MIPS.

Memory scalability
The memory subsystem offers flexible configurations that include the ability to expand up to 4GW per cell and up to 8GW in a fully configured system.

Enhanced high-availability features
Designed for today's demanding mission-critical environments, each individual processor/memory cell in the Dorado 740 and 750 Servers is a complete high-availability system and can also be viewed as a hard partition. A single platform can incorporate up to two cells, supporting up to eight instruction processors (IPs). Finally, resiliency is built-in as each cell contains its own redundant power and cooling.

Faster, more flexible I/O
A new, advanced I/O subsystem on the Dorado 740 and 750 Servers provides the capacity and responsiveness your I/O-intensive workloads demand. Highlights include:
• Improved performance compared to the Dorado 300 Server, including:
  – *Twice* the networking throughput
  – *Double* the small-block storage throughput
  – *More than 1.5 times* the large-block storage throughput
  – *More than twice* the number of I/Os per second >>

- Faster channel options with 4-Gb Fibre channels
- Extensive connectivity and resiliency
  – Up to 56 Fibre and Ethernet ports per cell
  – Continuing support for SCSI and SBCON tape channels
  – Enterprise channel rack design with dual power supplies
- Advanced I/O configuration flexibility
  – I/O connects directly into the processor/memory cell – no I/O expansion module required and each cell supports up to four I/O processors (IOPs)
  – Each IOP connects to a dedicated PCI channel module
    - 7 PCI-X slots in each channel module
    - Up to 28 PCI-X slots per cell via four IOPs
    - Up to 56 storage or NIC ports per cell

A Continuing Commitment to ClearPath Servers – and Your Success

So there you have it. New mid-range ClearPath Dorado Servers with all the features you've come to expect from Unisys – mission-critical support, high performance, enhanced capacity, and bullet-proof security. And as always, no application changes are required when moving to the new Dorado 740 and 750 platforms.

Looking to learn more about these new ClearPath Dorado mainframes? Please contact your Unisys sales executive or visit the eCommunity for more information about the Dorado 740 Server and Dorado 750 Server.

Welcome to the Family: ClearPath Dorado 4050 Server

OS 2200

We are pleased to announce the arrival of the **NEW** Unisys ClearPath Dorado 4050 Server – our *second* delivery of OS 2200 platforms leveraging Next-Generation Server Architecture. The Dorado 4050 Server is positioned to support entry-level environments and continue Unisys commitment to the ClearPath Next-Generation Architecture and mainframe-class, mission-critical computing environments.

ClearPath Dorado 4050 Servers offer a "best of both worlds" mainframe platform that combines:
• Intel® processors
• Robust OS 2200 operating environment
• Proven ClearPath mainframe attributes of performance, security, reliability, scalability, manageability, and tight integration with open middleware

Available with Unisys industry-leading Pay-for-Use business models only[1], ClearPath Dorado 4050 Servers offer the ultimate in infrastructure flexibility to align IT costs with business demands.

Here are just a few of the Dorado 4050 system highlights:
• **Performance of 10-30 MIPS, with a 60 MIPS metered ceiling**, which helps you more closely align IT costs with business needs
• **A state-of-the-art I/O system** built for mission-critical, high-end environments – the same one used in our Dorado 780 and 790 class Servers
• **Ready-To-Go Configuration** that includes 4GW of memory and 20 I/O ports

ClearPath Dorado 4050 Servers support OS 2200 Release 11.3 or higher and BIS 46R1 or 45R1. In addition, they offer powerful capabilities that allow existing ClearPath OS 2200 applications and data to participate in a SOA, as well as build and securely deploy new SOA services in a Real-Time Infrastructure (RTI).

All the Reliability and Resiliency You Need

Unisys mainframes are known for their reliability and resiliency – and the Dorado 4000 Family of Servers are no exception. Dorado 4000 Servers have excellent memory resiliency, offering the industry-standard Error Checking and Correction (ECC), as well as fully-buffered memory DIMMs (FBDs), which help to increase the memory processing speed. Memory mirroring technology on the Dorado 4000 is yet another capability designed to help minimize downtime caused by failures.

ClearPath Dorado 4000 Server platforms have redundant, hot-plug power and cooling, which allows electricity feeds from two different circuits and greatly reduces the opportunity for catastrophic downtime due to power interruptions. >>

[1] Traditional business models are not available on the ClearPath Dorado 4050 Server

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I/O Performance to Power Your Organization

When it comes to ClearPath production workloads, I/O performance is critical. Dorado 4050 Servers use the same I/O subsystem offered with our high-end Dorado 780 and 790 Servers. The Dorado 4050 Servers' I/O subsystem offers 20 built-in (12 storage, 8 networking) high-performance ports with enterprise-class bandwidth. Finally, Dorado 4050 mainframes are compatible with the storage peripherals used with Dorado 4000 and 700 Servers, as well as the majority of peripherals used on earlier systems.

Manageability You Expect

The Dorado 4000 Servers' system management software is consistent with the existing operations and management systems found on Dorado 100, 200, 300, 400, and 700 Servers – with Operations Sentinel (SPO) integration, call home, and remote maintenance features. These tools are key contributors to the enterprise-class reliability and high service levels for which ClearPath Dorado systems are well-known.

Business Value and Proven ClearPath Mainframe Attributes

Thanks to Unisys Next-Generation Server Architecture, Dorado 4050 Servers deliver the best of both worlds: solid business value through standardization on Intel® processors, combined with the proven ClearPath mission-critical mainframe attributes.

ClearPath Dorado 4050 Servers offer all the capabilities needed to achieve true IT agility, including:
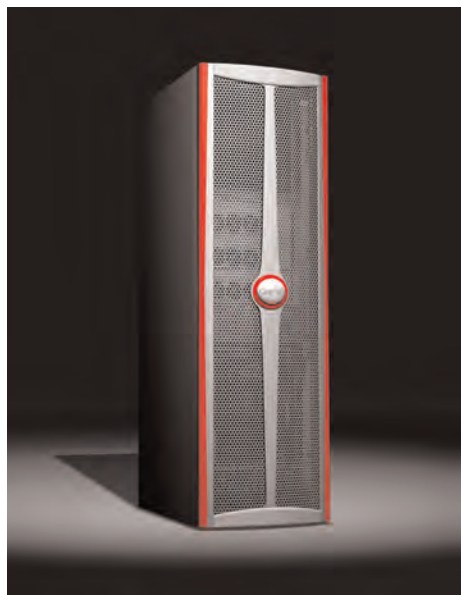• Support for diverse workloads
• Industry-leading metering technology
• Popular software standards
• The ability to leverage industry-standard tools and applications, as well as widely available skill sets
• Automated processes and operations
• SOA-based business connectivity

And as with every OS 2200 system, Dorado 4050 Servers offer total code and data compatibility. The transition to a Next-Generation Server Architecture based mainframe could not be easier, simply:
• Connect a compatible storage subsystem with existing program executables and data to your Dorado 4050 Server
• Boot the system

For more information about all models of the ClearPath Dorado 4000, including the new Dorado 4050, please contact your Unisys sales executive or visit the eCommunity.

New Giants: The ClearPath Libra 780 and Libra 790 Mainframes

MCP

We are pleased to announce two **NEW** high-end systems: the ClearPath Libra 780 and Libra 790 Server Lines. Read on to get all the details about the most powerful ClearPath MCP systems ever built.

Key Features At-a-Glance

The ultimate in performance and flexibility
The Libra 780 and 790 Servers are further evidence of Unisys commitment to delivering mission-critical mainframe computing – with exceptional performance and significant new features compared to the Libra 680 and 690 Servers.

Featuring the latest dual core processor technology, the Libra 780 and 790 Servers offer a 10 percent increase in processor performance and improvements in I/O performance of up to 15 percent over previous high-end models. These systems have a single image performance range of 300 to 5,200 MIPS. The maximum single thread (single instruction processor (IP)) performance is 550 MIPS.

The new Libra 780 and 790 Servers also provide support for larger physical and addressable memory. Software changes make it possible for the MCP operating environment to address up to 96GB of memory (128GB of physical memory) for a single MCP image – twice that of Libra 580 and Libra 585 class systems.

Adding to the Libra 780 and 790 Servers' flexibility is the automatic performance redistribution feature. Unlike previous approaches – where manual intervention was needed to allocate licensed performance over some or all of the installed processors – this capability aims to provide uninterrupted service by automatically reallocating performance to other processors in the event of a failure. There are four policy-based resource management features available: Capacity on Demand; user-defined processor sets; Ready processors, memory, storage, I/O, and networking ports; and now automatic performance redistribution.

Finally, the new high-end Libra systems continue to deliver the flexibility of both traditional business models with Capacity on Demand options (Libra 780 Servers) and Pay-for-Use business models (Libra 790 Servers).

Powerful, secure configurations
The new Libra 780 and 790 Servers provide powerful configurations with up to four MCP partitions. The maximum single MCP image attributes include:
• 16 MCP CMOS IPs
• 96GB of MCP addressable memory
• Up to 64 4-Gb Fibre Channel I/O ports
• Up to 32 1-Gb Ethernet networking ports
• Up to 6 SCSI ports

In addition to the high degree of innate security within ClearPath systems, there is also the option to use a Cryptographic Co-processor, which employs the advanced encryption standard (AES/256-bit). >>

Open architecture

As previously announced, our RoHS-compliant specialty engines for ClearPath MCP add a new dimension to the ClearPath architectural evolution – one that incorporates industry-standard technologies and offers consistently higher performance in such key areas as web enablement, Web Services, encryption, and Java. On the Libra 780 and 790 servers, we now offer support for multiple ClearPath MCP JProcessors for added redundancy and performance. In addition, the ClearPath ePortal specialty engine helps organizations safely and securely expand the reach of their ClearPath MCP systems, transactions, and data on the Internet.

The Behemoths of the ClearPath Libra Family of Servers

The new Libra 780 and 790 Servers are designed to help you provide an enterprise-class, service-oriented solution environment, supporting:
• ClearPath MCP 12.1 for MCP applications
• Java/Java EE applications
• Agile Business Suite 2.0 and 1.2, and Enterprise Application Environnent (EAE) 3.3
• High-volume and secure SOA transaction environments

And, with fully redundant system configurations and flexible Disaster Recovery configuration options, your ClearPath Libra 780 and 790 Servers are truly the foundation of your IT infrastructure.

Contact your Unisys sales executive or visit the eCommunity for more about the Libra 780 Server *and* Libra 790 Server.

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ClearPath MCP Release 12.1 is Here!

MCP

An integrated release of more than 125 products, ClearPath MCP Release 12.1 includes **NEW** functionality in three key areas of application modernization, data center transformation, and security.

Application Modernization

- **Unisys XML Parser for ClearPath MCP:** A new product that enables application integration based on XML standards (cross platforms or heterogeneous), Unisys XML Parser for ClearPath MCP offers an application programming interface that COBOL85, ALGOL, and NEWP applications can use to parse, create, or modify XML documents.
- **Unisys ClearPath ePortal:** Many organizations are looking for ways to take advantage of the features provided by the latest Web Services standards, including improved interoperability, flexible security options, efficient transport protocols, and new messaging options. With the 12.1 release, Unisys ClearPath ePortal can now generate Web Services based on the Microsoft Windows Communication Foundation (WCF) 3.5.1.
- **ClearPath MCP IDE *for Eclipse*™:** The latest release of the MCP IDE for Eclipse includes new editors for COBOL85, ALGOL, and WFL, as well as integration with the J2EE Connector for MCP Transactions – further reducing the learning curve on MCP-specific tools and programming languages for new developers.

Data Center Transformation

- **Hot software updates:** To ensure continuous availability of transaction processing applications, MCP Release 12.1 provides a new feature that enables certain transaction processing application code files running under COMS Transaction Server to be updated with no visible downtime for end users.
- **Workload Management enhancements:** Two new features help data center personnel:
  - Track how and what processor resources are being consumed by programs over time via new workload aggregate processor and I/O usage reporting
  - Ensure that batch jobs complete on time via improvements to Workload Management's prediction algorithm for the elapsed time completion goal

Security

- **IPSec support for AES encryption:** The 12.1 release offers support for the most popular encryption algorithm on IPv6 networks.
- **Quiesce (snapshot) database copies can reside in permanent directories:** This new feature improves security on development systems by enabling common database access without sharing common usercodes or chargecodes.

For more about the many new features in ClearPath MCP Release 12.1, check out the Software Release Announcement in the eCommunity.

New Services Maximize ClearPath Business Value

By Peter Bye, ClearPath Global Service Line Lead

Despite the reality of severe budget restrictions, CIOs must deliver the IT services required to keep the business competitive. Failure to do so promises to leave the organization unprepared – or worse – when the economic upturn comes. Responding to these conflicting pressures requires wringing maximum value from IT assets.

Today, IT services increasingly involve co-operation between systems, internally and externally. What's more, reusing existing assets within a coherent architecture creates a more agile response to business requirements – because there is less to develop – and, therefore, reduces risk. In this scenario, existing ClearPath applications become components in a wider distributed system where applications and databases are used in new ways, capitalizing on valuable assets. The result is reduced cost of implementing new services.
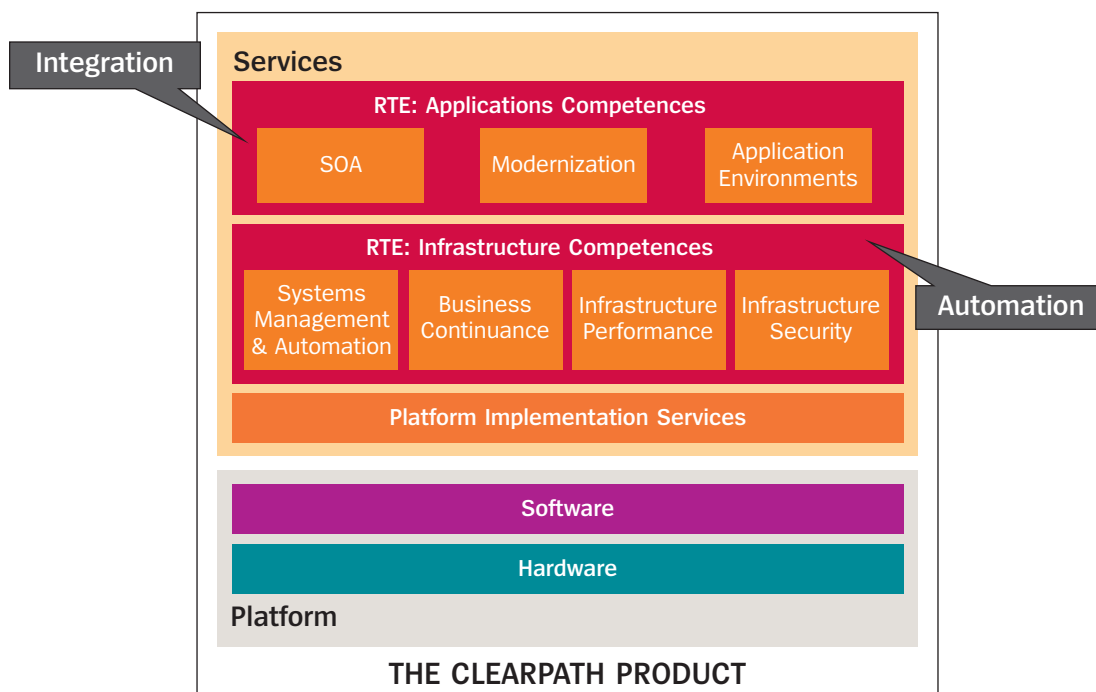
The ultimate objective is the *Real-Time Enterprise (RTE)*: a dynamic IT infrastructure that provides services to its clients whenever required.

Strategic Direction

Unisys goal is to take our clients' IT environments on the journey towards the RTE – to the level required to meet business objectives and help the CIO sleep at night! The ClearPath Service Line strategy to achieve this aim can be summed up as:

1. **Integration:** Connecting the different parts together; and
2. **Automation:** A common approach to management is required, necessitating a high level of automation.

ClearPath services complement the hardware and software platform – they are part of the product (see the figure below). >>

The services are grouped into sets called competences as follows:
- **Platform Implementation Services** keep the platform up to date by, for example, installing new releases.
- **Real Time Enterprise: Applications – Integration Services** focus on three areas:
  - *Service-Oriented Architecture (SOA) services*, which cover the spectrum of activities from initial client discussions at a business level, analysis of requirements, proof of concept projects, through implementation and deployment.
  - *Modernization services*, which are aimed at refreshing and extending ClearPath applications, including opening such applications as Web Services to new clients.
  - *Application environments and development tools services*, which help optimize the various application environments available for ClearPath systems.
- **Real Time Enterprise: Infrastructure – Automation Services** focus on four areas:
  - *Systems management and automation services*, which are concerned with managing and automating environments containing ClearPath systems.
  - *Business continuance/disaster recovery (BC/DR) services*, which are concerned with ensuring IT service continuity in the event of failure.
  - *Infrastructure performance services*, which ensure that ClearPath systems perform at the most cost-effective level.
  - *Security services*, which help users capitalize on the extensive suite of ClearPath security features.

To learn more about the ClearPath Service Line and how these services can benefit your organization, please contact your Unisys sales executive.

Calendar

There are many learning opportunities available to you. Please be sure to check the Webcasts & Events section of the eCommunity for the latest information.

What	Where	When
FutureMatters	Paris, France	June 9, 2009
Technology Updates – Agile Business Suite and EAE user meetings	Amsterdam, NL Milton Keynes, UK	June 16, 2009 June 18, 2009
Agile Business Suite and EAE two-day user meeting	St. Paul de Vence, France	November 2009
UNITE Annual Technology Conference	Hyatt Regency Minneapolis, Minneapolis, MN	November 8-11, 2009
Business Information Server (BIS) Symposium	Unisys Roseville, MN	November 12-13, 2009

Specifications are subject to change without notice.