

NonStop Computing Update: February 2005

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Welcome to the February 2005 edition of the *NonStop Computing Update*, a newsletter with information on HP NonStop servers. This newsletter provides brief synopses, with hotlinks for additional information where appropriate.

To subscribe, or for comments or feedback, please send e-mail to [Sharon Wilkerson](#). Your comments, questions, and suggestions are always welcome.

NonStop server news

HP Evolution Services for Itanium processor–based NonStop servers

In January, HP Chairman and CEO Carly Fiorina presented the latest innovations for the first of [HP server families](#) to make the move to Intel® Itanium® processors: HP Integrity servers, a complete range of high-performance, reliable, industry-standard servers that can run multiple operating systems, including UNIX®, Microsoft® Windows®, Linux, and HP OpenVMS. NonStop servers also play an important role in the company's investment in its Itanium-based server portfolio for high-end, high-demand computing. Three programs are in place now to prepare the NonStop server community for the introduction of Itanium-based NonStop servers later this year:

- Immediate availability of HP Evolution Services for Itanium-based NonStop servers
- Availability of the NonStop Advanced Architecture (NSAA), the framework for next-generation Itanium-based NonStop servers, by mid-2005
- The NSAA Partner Program, with more than 75 partners participating to validate [Itanium-based solutions](#) for NonStop servers

Announcing NonStop S88000SE and S78SE servers

HP announces [new servers](#) for telecommunications central office environments: the high-end NonStop S88000SE Server and the entry-level NonStop S78SE Server. The NonStop S88000SE Server is the new Network Equipment Building System (NEBS)-compliant flagship server in the NonStop S-series server product line. It is intended for mission-critical telecommunication applications that require high levels of availability, scalability, and data integrity. The NonStop S88000SE Server addresses application growth requirements by delivering 30 percent more performance than the previous-generation NonStop S86000SE Server. It can be configured with up to 16 gigabytes of main memory and uses MIPS R16000 processors with 8 megabytes of Level 2 cache. The NonStop S78SE Server is the newest NEBS-compliant server for entry-level telecommunication applications and is only available in a two-processor

configuration with a NonStop S700 Software License. The NonStop S78SE Server is intended for applications that require high availability and data integrity, but not scalability.

RVU G06.25 of the NonStop operating system further delayed to February 2005

G06.25, a generally available Release Version Update (RVU) of the NonStop operating system, was originally planned for release in December 2004. Subsequently, the NonStop Enterprise Division issued an announcement that [RVU G06.25](#) would ship in mid- to late January 2005. This announcement is to advise that RVU G06.25 is now scheduled to begin shipment in mid-February. Further notification will be given when RVU G06.25 actually ships.

NASDAQ's Randich honored as *Computerworld* Premier 100 IT Leader

Steven J. Randich, NASDAQ Stock Market Inc. executive vice president of operations and technology and CIO, has been honored by *Computerworld* as one of the Premier 100 IT Leaders for 2005.

Randich's award is due in large part to his leadership of a project called Closing Cross, an electronic transactions auction that demands massive processing power—provided by a 176-processor NonStop system. Closing Cross entered production in April 2004, ahead of schedule, and was at full capacity by June 2004. "Closing Cross performed perfectly with all of Wall Street's eyes on it," Randich said. "In one instant, over 333 million shares were automatically executed in the auction, with the system processing greater than 16,000 trades per second." Closing Cross has had 100 percent uptime since its launch. According to Gartner analyst David Schehr, the success of the initiative is a major reason why the Dow Jones, Standard & Poor's, and Russell indexes continue to base their calculations on NASDAQ's closing prices. A recent [Computerworld](#) article, entitled "IT Playbook: Great Works," describes NASDAQ's and Randich's IT challenges, risks, and rewards for this project in greater detail.

Success stories

ISP reduces backup time—and storage space—using virtual tape emulation

In a recent test, a large Internet service provider (ISP) was able to cut in half the time needed to back up NonStop Transaction Management Facility (NonStop TMF) data as compared with online backups to disks, while at the same time reducing data storage space by more than 50 percent. The ISP achieved an average data compression ratio of 2.3:1 and reduced backup operations time at roughly the same ratio—from four hours to one hour and forty-five minutes. These results were made possible with enhanced virtual data compression techniques built into TapeLab's [Virtual Tape Server](#) (VTS) for NonStop servers. The new backup technology not only allowed the ISP to reduce its storage costs, but also allowed it to extend savings across the entire enterprise with significantly reduced operations time and resources. In addition, instant access to stored transaction information enhanced disaster recovery capabilities, thereby enabling continuous availability in the event of a local or regional outage. With VTS for NonStop servers, data compression is integrated into the NonStop server environment using a middleware tape emulation engine. VTS emulates tape storage to NonStop servers, allowing definition of an unlimited number of virtual tape cartridges on low-cost fault tolerant disk arrays (RAID). If long-term backup copies are required, data stored in VTS can later be copied to real tape media maintaining the native tape format. Contact your HP sales representative to find out more about VTS software.

General news

HP is number 4 on list of top U.S. patent winners in 2004

HP moved up to the [number 4](#) position on the U.S. Patent and Trademark Office's list of the top 10 organizations receiving the most U.S. patents in 2004. The company was awarded 1,775 patents for the year, up from 1,759 in 2003. Worldwide, HP added approximately 4,000 patents to its portfolio in 2004, an average of 11 per day. Its total patent portfolio now stands at about 25,000, one of the largest in the world. "This achievement validates the strategy established five years ago when we put the word 'Invent' in the company logo and increased our efforts to build a patent portfolio to help ensure our technology leadership," said Steve Fox, HP vice president and deputy general counsel, intellectual property. "In 2000, we were number 16 in the rankings. We've made steady progress over the years to get to where we are today."

HP unveils "Noisy Lab" for RFID technology development

HP has announced plans to open an [RFID Noisy Lab](#) in Omaha, Nebraska, in February 2005 to further the development of radio frequency identification (RFID) technology. The HP facility will be one of the most comprehensive RFID labs in the industry, simulating a real-world manufacturing and distribution center where HP, its customers, and its partners can pilot and evaluate RFID technology and solutions. RFID is a data collection technology that provides suppliers, retailers, manufacturers, and distributors with up-to-the-minute supply chain visibility, from inventory and logistics to freshness dates. Such timely supply chain information enables companies to respond in real time in order to improve stock availability, reduce shrinkage, and improve customer service. RFID solutions also support the HP Adaptive Enterprise strategy, which helps customers synchronize business and IT to capitalize on change. "IDC considers HP's RFID Lab initiatives to be well timed for an emerging marketplace," said Richard Dean, program director for Mobile Enterprise and RFID Services research, IDC. "It further underscores HP's commitment to providing the right solutions for supply chain participants within the RFID (and autosensing) marketplace."

IBM, Sun, HP, and Intel join on grid development

A recent [Computerworld](#) article reports that HP, IBM, Sun Microsystems, and Intel have combined forces to improve open-source grid development efforts and accelerate grid business adoption. HP, together with the other companies, announced the formation of a consortium to put money and expertise toward improving the Globus Toolkit, the open-source development project of the Chicago-based Globus Alliance. The alliance is a volunteer organization that was formed in the mid-1990s and attracted early grid users in academic and government research. The new Globus Consortium's "goal is to proactively address the issue of grid computing in enterprises," said consortium head Greg Nawrocki, who will lead the industry group. "Our belief is that open-source is the key to grid in the enterprise." Initially, the consortium will develop a priority bug-fixing scheme for the tool kit, said Nawrocki.

Partner news

NonStop Partners—Distinguish products with NonStop SQL/MX Ready insignia

The [NonStop SQL/MX Ready Program](#) is designed to help NonStop technology partners validate and certify products that can create, manage, and interoperate with NonStop SQL/MX databases using MX tables. It also helps NonStop server customers choose third-party products and tools that offer proven interoperability. In 2005, HP will begin to advise NonStop customers and prospective customers to look for the NonStop SQL/MX Ready insignia when selecting third-party products for use with NonStop servers. Earning the right to use the NonStop SQL/MX Ready insignia means that a third-party product has completed rigorous testing and is certified not only to comply with ANSI SQL standards as implemented within NonStop SQL/MX Release 2.0 software, but also to support the software's associated interoperability advantages. The NonStop SQL/MX Ready Program is open to Developer and Solution Partner Program (DSPP) NonStop application partners and NonStop SQL software tools vendors. Completion of the program has many advantages for partners, including joint marketing and sales opportunities.

Exhibitor and sponsorship opportunities at 2005 ITUG European Conference

The [ITUG European Conference](#), to be held May 23–25 in Berlin, Germany, is widely praised as the essential education, training, and networking event for users of NonStop systems and solutions in Europe, the Middle East, and Africa (EMEA). By taking part in this one-of-a-kind event, NonStop technology partners can provide products and services to the key decision-makers and technical professionals that look to the ITUG European Conference for advanced business tactics, critical information, and fresh ideas.

EAP of SecurCS and SecurFTP for Itanium processor–based NonStop servers

comForte, a leading provider of [encryption solutions](#) for the NonStop platform, has adapted its two flagship encryption products, SecurCS and SecurFTP, as well as its SSL-enabling library, SecurLib, for the Itanium-based NonStop server platform. Components running on the NonStop platform have been converted to native Itanium type-800 executables and are available for Early Adopter Program (EAP) testing immediately. To test any of these products on an Itanium-based NonStop server, contact [comForte](#).

GreenHouse announces PWQASEEP Denial of Service prevention product

Greenhouse announces a new product, [PWQASEEP](#) (Password Quality Security Event Exit Process), that prevents Denial of Service attacks resulting from uncontrolled process creation. The new software restricts program object files to specific locations, so processes can only be started from a predefined set of locations or object files, without the need to introduce ACLs. It also controls the number of processes a user may run in parallel so that, for example, all users in a SUPER-group may run 30 processes per user, while all users in a development group may run a maximum of 10 processes per user. In addition, PWQASEEP restricts the number of instances of a process a user and/or system may run in parallel and denies the ability of a process to start itself. PWQASEEP rule management is made easy with extended wildcards that reduce the number of rule entries. PWQASEEP requires HP Safeguard software and connects with the Authorization Security Event Exit.

J2EE Server Link for Pathway applications available from comForte

comForte, a leading provider of Web-enabling and legacy integration solutions for NonStop servers, has extended its product line to support seamless integration of Pathway applications on NonStop servers with J2EE environments running on other platforms. J2EE Server Link (JSL) is a fully functional [J2EE](#) resource adapter for Pathway server access, supporting the JCA (Java™ Connector Architecture) standard. With JSL, enterprises can take full advantage of both J2EE and the power of the NonStop platform, without requiring Java or Open System Services (OSS) on the NonStop server or burdening it with presentation and data conversion services. JSL can be deployed with any standard J2EE container, such as BEA's WebLogic Server, IBM's WebSphere, or JBoss. Because JSL is built upon comForte's Client Server Link (CSL), a single infrastructure is able to support Pathway connectivity from J2EE applications servers, as well as from existing RSC clients, or new clients written in Java, C++, or Delphi. Secure SSL/TLS sessions between application server and NonStop systems are also supported, as well as full transaction management via NonStop Transaction Management Facility software.

MPress now produces PDF documents

Merlon Software Corporation and Insession Technologies announce exciting new functionality for [MPress](#), the NonStop server report-writing solution. MPress now has the ability to produce Adobe® Portable Document Format (PDF) files. In addition to printing directly to network-attached PCL5 and PostScript® printers, MPress can produce PDF output to either Guardian or OSS environment files. Because the MPress reporting engine runs directly in the NonStop environment, reports can be automatically scheduled to extract data from a NonStop SQL/MX, NonStop SQL/MP, or Enscribe database—or a combination of different databases. Output can then be written to a directory where it may be displayed by intranet or extranet browsers.

TSI selected as tape partner for Itanium processor-based NonStop servers

Tributary Systems, Inc. (TSI) has been selected as a partner to develop and supply all directly attached tape storage, connectivity hardware, and library management software solutions for new Itanium processor-based NonStop servers. Concurrent with the release of Itanium-based NonStop servers, TSI will introduce a portfolio of new native Fibre Channel tape devices and a method for migrating existing SCSI-based tape system investments to the new computing environment. These products will be sold through HP and will be included in the HP price book. Additionally, TSI will introduce several other new tape storage products in 2005, with details to follow in the coming months as products become available to customers. For additional information or for Itanium-based NonStop server tape system migration planning, contact [Larry Meyers](#), TSI, at +1 (817) 354 8009, ext. 32.

UC4:global provides multiplatform job scheduling solution

[UC4:global](#) software provides an event-driven job scheduling solution for NonStop technology customers who work in a real-time enterprise and/or a hybrid server environment. With UC4:global, all IT processes across all platforms are centrally controlled and monitored. UC4:global provides full support for all major operating systems, including the entire HP enterprise server portfolio, as well as OS/400, mpe/ix, z/OS, BS2000/OSD, GCOS 8, and other computing platforms. UC4:global manages all processes across applications, including business solutions from SAP, PeopleSoft, Oracle®, and Siebel.

For end-to-end enterprise management, UC4:global provides a certified Smart Plug-In for HP OpenView Operations as well as certified integration with HP OpenView NNM and other major framework solutions. More than 600 well-known companies in all sectors of industry, including many large NonStop technology customers, rely on UC4:global.

User group news

Register now for 2005 ITUG European Conference and save 100 euros

[Register online](#) now for the 2005 ITUG European Conference—by registering before February 28, you can save 100 euros. This event, to be held May 23–25 at the Estrel Convention Center Auditorium in Berlin, Germany, brings together the NonStop community of Europe, the Middle East, and Africa (EMEA). Through educational and networking offerings designed specifically for NonStop users, attendees will build on their technical knowledge and network with NonStop system professionals from companies throughout EMEA. The conference will feature

- Optional pre-conference educational seminars (May 23)
- NonStop Partner Summit (May 22–23)
- HP executive speakers
- More than 50 NonStop product–focused technical sessions presented by users, vendors, and NonStop system specialists
- Special Interest Group (SIG) sessions
- HP Certification Professional program exam overview sessions and on-site testing center
- An Exhibit Hall showcasing NonStop products, solutions, and services as well as exhibits from more than 30 partners and vendors
- Plenty of networking opportunities

Mark your calendar for the OZTUG 2005 Conference and Trade Show

Mark your calendars now for the [OZTUG 2005](#) Conference and Trade Show, ITUG's Asia-Pacific Conference, to be held on July 25–26. Stay tuned to the ITUG website for forthcoming conference details.

Regional User Group updates

ITUG has more than 30 active [Regional User Groups](#) (RUGs) worldwide and numerous SIGs.

- [ATUG](#): The Atlanta Tandem Users Group
- [BITUG](#): The British Isles NonStop User Group held a Middleware SIG Meeting on January 26. An Education Day will be held on March 7, followed by the BITUG Summit 2005 Conference on March 8–9.
- [CTUG](#): The Canadian Tandem Users Group
- [DUST](#): The Desert Users of Tandem
- [FINTUG](#): The Finnish regional Tandem Users Group held a meeting on January 25–27 in

Helsinki, Finland.

- [FTUG](#): The French Tandem Users Group will next meet on March 10 at La Défense in Paris.
- [GTUG](#): The German Tandem Users Group
- [HUG](#): The Houston User Group
- [INUG](#): The Iberian NonStop Users Group will hold a meeting on March 3. For further information, visit the INUG website.
- [InNUG](#): The India NonStop Users Group is a new regional affiliate of ITUG serving members in India and the surrounding areas. For more information, contact [Nigel Baker](#).
- [KNUG](#): The Korean NonStop Users Group
- [LATUG](#): The Latin America Tandem User Group
- [MATUG](#): The Mid-Atlantic Tandem Users Group
- [MCTUG](#): The Mid-Continent Tandem Users Group held an Education Day on January 25, followed by a MCTUG meeting on January 26, both in Overland Park, Kansas.
- [METUG](#): The Middle East Tandem Users Group
- [MiTUG](#): The Michigan Tandem Users Group
- [MRTUG](#): The Midwest Region Tandem Users Group
- [MSTUG](#): The Mid-Southern States NonStop Users Group
- [N2TUG](#): The North Texas and Oklahoma Tandem Users Group
- [NCTUG](#): The Northern California Tandem User Group met on January 27 at the HP offices in Cupertino, California.
- [NRTUG](#): The Northeast Region Tandem Users Group
- [OTUG](#): The Ohio Tandem Users Group
- [OZTUG](#): The Australian Tandem Users Group (meeting in Sydney)
- [PNUTS](#): The Pacific Northwest Users of Tandem
- [RMTUG](#): The Rocky Mountain Tandem Users Group will next meet on March 10.
- [SATUG](#): The South African NonStop User Group will hold its fifth-anniversary Summit 2005 event on February 22–23, followed by an Education Day on February 24.
- [SCTUG](#): The Southern California Tandem Users' Group (El Segundo, CA.)
- [SunTUG](#): The SunCoast NonStop Users Group
- [TUMS](#): The Tandem Users of Minneapolis/St. Paul held a meeting on January 7 at the HP offices in Minneapolis, Minnesota.
- [VNUG](#): The Viking NonStop User Group

Education news

Pre-conference seminars at the 2005 ITUG European Conference

Two optional, pre-conference educational seminars will be offered on May 23 in Berlin, Germany, prior to the ITUG European Conference:

- Quick Introduction to Web Services for NonStop Servers
- Quick Introduction to NonStop Server Performance Tuning and Analysis

[Register](#) before February 28 and save 100 euros.

NonStop server as integration hub topic of March Customer Conference Call

The next NonStop Customer Conference Call will be held on March 3 from 8:00 to 9:00 a.m. PDT (U.S.). The one-hour webcast will feature the topic of NonStop servers as an integration hub for data and applications and will be presented by Mike Zivkovic from NonStop Product Management. Calls are accessible over worldwide toll-free phone numbers for audio and use the HP Virtual Classroom (HPVC) for slide display. The Customer Conference Call format allows plenty of time for questions. [Sign up](#) now to receive monthly conference announcements, to view upcoming presentations, or to replay previous calls.

Service and support news

End-of-life for some versions of NonStop DTE and NonStop EAS products

This quarterly support note notifies NonStop technology users of changes in status, designated in the NonStop Software Product Maintenance List (SPML), of various versions of NonStop Data Transformation Engine (NonStop DTE) and NonStop Enterprise Application Server (NonStop EAS) software products. See [Support Note S05001](#) for software versions that will move to obsolete maintenance status between the May and December 2005.

HP Enterprise Toolkit—NonStop Edition, Update 1 now available

HP Enterprise Toolkit—NonStop Edition, Update 1 software is now available to order as an Independent Product. The updated software now supports the creation of archives using the NonStop Archive project and allows users to nest folders in the project hierarchy. In addition, independent properties of the NonStop CORBA Interface project are exposed in the property window and two new macros have been added: Macros CORBAInstallDir and ETKInstallDir. For further details, see [Support Note S05003](#).

Inconsistent A7CINFO file errors in DSM/SCM software

This Support Note describes inconsistent A7CINFO file errors that may occur when receiving software into the Distributed Systems Management/Software Configuration Manager (DSM/SCM) software archive. These errors are encountered when the software being received is from a software product revision (SPR) that was decompressed through SWARCSET. Once this error occurs, users must run the DSM/SCM software's CNFGINFO tool to correct the A7CINFO file. For further details, see [Support Note S05004](#).

Fun stuff

Should your next CEO be a philosopher?

An article published by [Knowledge@Wharton](#) considers: “What differentiates a winning company from an also-ran? For many analysts and investors, the answer involves technology, which increasingly permeates every step of a business’s operations. But doesn’t social change trigger technological innovation? According to a Wharton professor and an Israeli venture capitalist, a company’s ability to understand its customers’ philosophical outlook may be as vital to its success as R&D and other efforts.”

Important phone numbers and links

(Phone numbers are for North America only, unless otherwise noted.)

- [NonStop news](#)—The very latest NonStop product news.
- [Global Customer Support Center](#): 1 (800) 255 5010 (U.S. only)—Technical hardware and software defect support and usage assistance.
- [NonStop Presales Group](#): 1 (800) 282 6672—Product information, price quotations, order processing information.
- [NonStop eServices portal](#)—A convenient, password-protected portal with access to a wide variety of services.
- [NonStop partners](#)—Information on strategic partnerships, partner products, services, and solutions.
- [NonStop Education & training](#): 1 (800) 472 5277—Education schedules, information, prices, and class enrollments.
- [NonStop Customer Conference Call](#)—Monthly technical updates—a "What's New" in the NonStop world
- [NonStop Technical Library](#)—A wide range of NonStop product publications, including technical manuals, articles, and support information.
- [Business continuity and disaster recovery solutions](#)—Basic information about business continuity, NonStop products and services for business continuity and disaster recovery, and customer successes.
- [NonStop software](#)—Information for developers of NonStop system applications.
- [Interactive Upgrade Guide](#)—An interactive tool to help plan system release migrations.
- [Web technology](#)—Preserving your investment in NonStop system business applications and databases while applying the latest Internet technologies.
- [Product information for NonStop servers](#)
- [HP alternatives for legacy mainframes/Mainframe Transition Tool Matrix](#)
- [ITUG, a user group for the NonStop server community](#): +1 (312) 321 6851
- [NonStop Services & support](#)
- [Network & service providers](#)

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