

NonStop Computing Update: March 2005

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Welcome to the March 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

1) RVU G06.25 of the NonStop operating system ships

G06.25, a generally available [Release Version Update](#) (RVU) of the NonStop operating system, is now shipping. Highlights of RVU G06.25 include the following new and enhanced functions, as well as defect repair.

- NonStop S78SE server support
- NonStop S88000SE server support
- Domain Name Server (DNS) Version 9.2.3
- Distributed Systems Management/Software Configuration Manager (DSM/SCM) support for IP and third-party products
- Enform Optimizer support for Format2 files
- NonStop Open System Management (OSM) improvements
- Safeguard V2 Release 4.0
- NonStop SQL/MX and Open Database Connectivity/MX (ODBC/MX) Release 2.0 (MX table

support)

- Backup/Restore2
- NonStop Transaction Services/MP (NonStop TS/MP) Pathmon enhancements

For a complete list of product versions and software product revisions (SPRs) included in RVU G06.25, refer to the CONTENT file found on the site update tape (SUT) in Y9230R31 and in the NonStop Technical Library (NTL) online collection. Softdocs for new and changed software modules are available online in the NTL collection or on the SUT (and are not included on the RVU G06.25 NTL DVDs and CDs).

2) HP Safeguard software enhanced with “Allow patterns on diskfile ACLs” feature

Allow patterns on diskfile Access Control Lists (ACLs), a new feature for HP Safeguard software, is now [available](#). Prior to this release, ACLs could only be created for individual diskfiles. To protect all of the diskfiles on a specific volume or subvolume, separate Volume and Subvolume ACLs had to be created. With this release, a new object type, DISKFILE-PATTERN, has been added. The DISKFILE-PATTERN feature makes it possible to use wildcards to specify groups of files to be protected with the same ACL—a more efficient method than separate volume, subvolume, and diskfile ACLs. Customers currently licensed for Safeguard software will receive this new feature automatically when they order an RVU G06.25 site update tape (SUT) for the NonStop operating system.

3) Seeking largest, most heavily used database: 2005 Winter TopTen Program

The Winter Corporation, a database research and consulting firm, is conducting its [sixth annual survey](#) to identify the world’s largest and most heavily used databases and to recognize the database practitioners whose achievements have advanced the boundaries of database size and power. NonStop server customers are encouraged to participate in the 2005 Winter TopTen Program. HP thinks the results will show what’s been known all along: that NonStop SQL software provides the world’s largest and most demanding databases with the unique advantages of unmatched availability and data integrity, extraordinary scalability, and flexible management. Participation in this prestigious program has its rewards. Not only will database experts have the opportunity to compare notes with others in the industry, but winning companies will be highlighted in the press and in industry analyst reports. To participate, contact your HP sales representative.

4) The real story about the IBM mainframe

Are you an IBM mainframe customer who’s concerned about the declining availability and cost of mainframe skills, the high ongoing costs of mainframe operation, the viability of the mainframe ecosystem, and being locked into a closed, proprietary platform from a monopoly vendor? If so, read this article about important facts and supporting information regarding the IBM mainframe [real story](#).

To learn more about the many benefits of evolving from mainframes to new, full-featured platforms from HP, see [Better Evolution](#) for Legacy Mainframes.

5) New memory pricing for 2- and 4-gigabyte NonStop servers

HP now offers new [memory pricing](#) for the 2-gigabyte and 4-gigabyte NonStop S88000SE, S78SE, S88000, and S78 family of servers. With price reductions of up to 12 percent, HP continues to demonstrate its commitment to improve the already industry-leading total cost of ownership (TCO) of NonStop systems.

6) NonStop S-series servers old-style appearance end-of-sales announcement

HP announces the end of sales of the old-style appearance of [NonStop S-series servers](#). A product announcement provides a complete list of the affected hardware product numbers, including each discontinued product along with its corresponding currently available replacement product.

7) Nomadic Disk technology for NonStop servers end-of-sales announcement

HP announces end of sales for the [Nomadic Disk](#) for NonStop S-series servers, with the last date to place orders on July 31, 2005. Two options are available for customers with current or future remote disk storage requirements. All of the functionality of Nomadic Disk is available directly through the use of HP StorageWorks XP Disk Array. For increased application availability, the StorageWorks XP Disk Array and a second system can be used in conjunction with NonStop Remote Database Facility/Zero Lost Transactions (NonStop RDF/ZLT) software to make a second copy of the database available—without risking the loss of any committed transactions, even in the event of a catastrophic failure.

Success stories

8) PULSE increases agility, lowers IT costs by moving processing in-house

Outsourcing offers clear benefits in terms of convenience, but companies that want to increase agility and lower costs might do well to consider taking control of their own IT environment. [PULSE EFT Association](#), the largest U.S. member-owned electronic funds transfer (EFT) network, recently did just that. The PULSE switch was operated by JPMorgan Chase and its predecessors for 17 years on NonStop servers. PULSE was happy with the service that JPMorgan Chase provided. But when the companies' contractual agreement came to an end, PULSE took the opportunity to evaluate other options, ultimately choosing to bring the entire switching, settlement, and billing infrastructure in-house. An evolved NonStop environment continues to handle the business-critical ATM/POS switching load. Results include dramatically lowered utilization levels with NonStop S86000 technology, the ability to maintain quality of service with 20 percent transaction growth rate, and online queries handled with no degradation to OLTP performance.

General news

9) HP reports first-quarter 2005 results

HP has reported [financial results](#) for its first fiscal quarter ending January 31, 2005. First-quarter revenue increased 10 percent year-over-year to a record US\$21.5 billion. Other highlights include

- Non-GAAP operating profit of US\$1.3 billion, \$0.37 earnings per share

- GAAP operating profit of US\$1.2 billion, \$0.32 earnings per share
- Cash flow from operations of US\$1.6 billion
- Personal Systems operating margin of 2.1 percent; Imaging and Printing operating margin of 15.4 percent; Enterprise Storage and Servers operating margin of 1.8 percent; HP Services operating margin of 7.4 percent

10) HP partners with eBay to tackle e-waste

HP is partnering with eBay and fellow members of the Rethink Initiative to apply some fresh thinking to the [problem of e-waste](#). Faster, more advanced computers and electronics offer endless possibilities for enrichment, learning, and entertainment. But as consumers and businesses keep pace with the introduction of exciting new products, we are faced with a mounting challenge: what to do with the products we're upgrading from. It's no small issue. Hundreds of millions of retired computers and electronics sit idle or are discarded by Americans every year. The Rethink Initiative brings together industry, government, and environmental organizations to offer a fresh perspective and new answers to the challenge of e-waste.

11) HP employees offer a helping hand to tsunami victims

Since the devastating earthquake and massive tsunami hit Asia, killing more than 225,000 and leaving millions of families homeless, the outpouring of support around the world has been extraordinary. At HP, the [compassion and generosity](#) of our employees has also shown through. From the hands-on help of individual employees, to the volunteer and fund-raising activities of many, HP employees worldwide quickly united into global and local response teams, providing critical, immediate assistance to the affected people and communities. As of January 2005, employee donations, a fund-matching program, and direct corporate contributions from HP total a US\$3 million commitment. In addition, donated technology from HP is helping victims to rebuild areas devastated by the disaster. It's all part of a global effort by HP and its employees to help make recovery a bit easier and hope more possible.

Partner news

12) European NonStop Partner Summit, May 22–23, Berlin

The third annual [NonStop Partner Summit](#) will be held on May 22–23 in Berlin, Germany, immediately preceding the ITUG European Conference. This year's conference will provide invaluable technical updates about the release of the Intel® Itanium® processor-based NonStop server. Also included:

- A special "Itanium Cafe" that allows you to test your code on the latest compilers in a secure desktop environment
- A special networking session that will help you identify and make the most of the business opportunities available to you during the conference
- A high-impact business track, including a session on how to take your solutions to market with NonStop Business Development and Sales
- The popular NonStop Executive Q&A Panel, moderated by Roy Sheppard

This conference is a direct benefit of being a member of the HP Developer & Solution Partner Program (DSPP) and there is no charge to attend.

To request to be added to the invitation list, contact [Tina Ashamalla](#).

13) Atos Origin ports Worldline Pay AS to NonStop servers

Atos Worldline, an Atos Origin company, together with long-term technology partner HP GmbH, has ported its Worldline Pay AS solution to the [Open System Services \(OSS\)](#) environment on NonStop servers. Worldline Pay AS is an international payment transaction and authorization solution for financial service providers, acquirers, and issuers. NonStop server customers who use the POSEIDON solution for banking and finance can now extend it to new Worldline Pay Front Office applications.

14) comForte announces EAP availability of SecurTN

comForte has adapted its powerful SSL-enabling Telnet server, [SecurTN](#), for the Intel Itanium processor-based NonStop server. SecurTN provides secure and manageable high-volume Telnet access to applications running on NonStop systems. It combines the functionality of a powerful Telnet server with strong authentication, user access control, session encryption, and auditing facilities in a single, integrated product. SecurTN can run 1,000 sessions in a single instance-making it the ideal choice for high-volume environments running HP Parallel Library TCP/IP or NonStop TCP/IPv6, which will run on the Itanium-based NonStop server. SecurTN for Itanium-based NonStop servers is available for EAP testing immediately. To test this product on an Itanium-based NonStop server, contact info@comforte.com.

15) comForte to host customer days prior to ITUG European Conference

comForte GmbH, a leading provider of encryption and Web-to-host solutions for the NonStop technology environment, will host two [customer days](#) on May 22–23, immediately prior to the 2005 ITUG European Conference. To kick off the event, participants are invited to a guided tour of Berlin. Various presentations and a dinner on Sunday will offer opportunities to learn more about comForte and to network with other comForte customers. If interested in participating, contact info@comforte.com.

16) Gresham offers single customer view for Real Time Financial Services from HP

Gresham Computing plc will offer its [Single Customer View \(SCV\)](#) solution based on Casablanca, Gresham's flagship Java™ integration server, running on the HP OpenPayments solution framework using the Real Time Financial Services (RTFS) central processing and database resource. Already used by a number of financial institutions, Casablanca helps to integrate both modern and legacy systems and provides a low-risk response to customer and user-led requirements in weeks, not months, all at minimal TCO. With Casablanca running on RTFS, each channel has access to a current, consolidated view of customer and business data, enhancing the power of existing applications and protecting IT infrastructure investment.

17) LTO Generation 3 technology from TSI available on Itanium-based systems

Tributary Systems, Inc. (TSI) will significantly enhance LTO tape products with LTO Generation 3 (Gen 3) technology, beginning with the release of Intel Itanium processor-based NonStop servers. By providing direct Fibre Channel connectivity to Itanium-based NonStop servers, TSI's tape drives will be capable of transferring data at 80 megabytes per second and tape cartridges will have native 400-gigabyte capacity. Gen 3 technology will double the previous Gen 2 cartridge native capacity of 200 gigabytes and more than double the Gen 2 device interface bandwidth of 30 megabytes per second, significantly enhancing tape operations performance. Gen 3 also provides backwards compatibility to the Generation 2 cartridges. For additional information, contact [Larry Meyers](#), TSI, at +1 (817) 354 8009, ext. 32.

18) Password Manager second-generation enterprise Autoload Platform available

The [Autoload Platform](#) is a password security policy and compliance management tool that helps companies encourage employees to accept and use corporate standards that meet Sarbanes-Oxley Act (SOX) and HIPAA compliance requirements. Distribution and initialization of individual tokens is achieved by preloading them from an intuitive spreadsheet-like program through a USB cradle. Preconfigured system/application identification and policy rules can also be downloaded to ensure that standards are enforced. In addition, individual employees can use the Password Manager Token to generate cryptographically strong passwords. An online introductory offer is available, which includes two tokens, a cradle, and PC Policy Master software. Trade-in allowance for buyers of the original Password Manager Token and enterprise and government quantity pricing are available. For more information, contact Steve Frain, USA, at +1 (610) 296 2633.

19) Maximize return on investment with OSS and PROGNOSIS

The Open System Services (OSS) environment increases the potential of the NonStop server platform. But to ensure a reliable OSS environment that operates at optimum levels, its processes must be monitored in conjunction with those of the NonStop server. In the OSS management for NonStop servers [article](#), published by Integrated Research, the developers of precise real-time monitoring solutions for NonStop servers and the newly released PROGNOSIS OSS Performance Monitor explain how to increase the potential of OSS—for maximum return on your investment.

20) PROGNOSIS provides real-time ATM transaction surveillance

[PROGNOSIS Transaction Surveillance](#) for BASE24 is the first product to provide instant real-time access to ATM and POS transaction details, including Primary Account Number (PAN) information,” according to Andrew Moran, product manager for banking and finance applications at Integrated Research. The ability to instantly report on individual transactions enables a number of functions, most notably in the area of fraud detection. PROGNOSIS Transaction Surveillance now completes Integrated Research's holistic BASE24 monitoring and performance management software suite.

21) XYPRO provides free “SOX” solutions paper

The Sarbanes-Oxley Act (SOX) dictates greater electronic security of IT resources. “SOX” applies to any publicly traded company in the United States, including all divisions, wholly owned subsidiaries, and any non-U.S., public, multinational company doing business in the United States. XYPRO, author

of *HP NonStop Security, A Practical Handbook*, offers *XYGATE & SOX Compliance*, a solutions paper showing where SOX applies to NonStop server enterprises and how the XYGATE security suite helps IT managers with compliance efforts. Product tables describe each SOX objective and which XYGATE module helps meet compliance requirements. [Download](#) a free copy of the paper.

User group news

22) ITUG European Conference: Register before March 21 and save 200 euros

[Register](#) online by March 21 for the 2005 ITUG European Conference and you can save 200 euros. More details about the conference are being announced regularly, including the following news, just in:

- HP executive speakers will include Rudi Schmickl, Neil Pringle, Dave Stubbs, Uli Holdenried, and Pauline Nist.
- The NonStop user keynote session will be presented by Helmut Hauer from DaimlerChrysler.
- The industry analyst keynote session will be presented by Phil Dawson from META Group.

23) Regional User Group updates

ITUG has more than 30 active Regional User Groups (RUGs) worldwide and numerous SIGs. Get a complete look at the [2005 ITUG calendar](#) for RUGs and SIGs.

MIDWEST ROADSHOWS: The next two Midwest Roadshows will be held March 10 in Brookfield, Wisconsin, and March 11 in Brooklyn, Ohio. A 20-gigabyte iPod will be given away at each event. Check the [MRTUG](#) and [OTUG](#) websites to register.

- [ATUG](#): The Atlanta Tandem Users Group
- [BITUG](#): The British Isles NonStop User Group held an Education Day on March 7, followed by the BITUG Summit 2005 Conference on March 8–9.
- [CTUG](#): The Canadian Tandem Users Group will hold its Spring 2005 Conference and Trade Show on April 27–28 in Toronto, Ontario.
- [DUST](#): The Desert Users of Tandem will hold a meeting on March 15 at the HP office in Tempe, Arizona.
- [FINTUG](#): The Finnish regional Tandem Users Group
- [FTUG](#): The French Tandem Users Group will meet on March 10 at the Hilton La Défense in Paris.
- [GTUG](#): The German Tandem Users Group
- [HUG](#): The Houston User Group
- [INUG](#): The Iberian NonStop Users Group held a meeting on March 1 focusing on disaster recovery.
- [InNUG](#): The India NonStop Users Group serves members in India and the surrounding areas. For more information, contact [Nigel Baker](#).

- [**KNUG**](#): The Korean NonStop Users Group will hold a meeting on April 18 in Seoul, Korea.
- [**LATUG**](#): The Latin America Tandem User Group
- [**MATUG**](#): The Mid-Atlantic Tandem Users Group
- [**MCTUG**](#): The Mid-Continent Tandem Users Group
- [**METUG**](#): The Middle East Tandem Users Group will hold an event on June 2-4 in Beirut, Lebanon.
- [**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 will meet on March 18 in Dallas, Texas.
- [**NCTUG**](#): The Northern California Tandem User Group will meet on April 28 in Cupertino, California.
- [**NRTUG**](#): The Northeast Region Tandem Users Group
- [**OTUG**](#): The Ohio Tandem Users Group
- [**OZTUG**](#): The Australian Tandem Users Group will hold its 2005 Conference and Trade Show, ITUG's Asia-Pacific Conference, on July 25–26.
- [**PNUTS**](#): The Pacific Northwest Users of Tandem
- [**RMTUG**](#): The Rocky Mountain Tandem Users Group will hold its next meeting on March 10.
- [**SATUG**](#): The South African NonStop User Group
- [**SCTUG**](#): The Southern California Tandem Users' Group will hold a meeting on March 29 at the HP offices in El Segundo, California.
- [**SunTUG**](#): The SunCoast NonStop Users Group
- [**TUMS**](#): The Tandem Users of Minneapolis/St. Paul held a meeting on March 2 in Minneapolis, Minnesota.
- [**VNUG**](#): The Viking NonStop User Group

Education news

24) April NonStop Customer Conference Call features HP Web ViewPoint software

The next NonStop Customer [Conference Call](#) will be held on April 7 from 8:00 to 9:00 a.m. PDT (U.S.). The one-hour webcast will feature the topic of HP Web ViewPoint software as well as operations and performance management tools and will be presented by Khody Kodayari, a NonStop performance consultant. 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 (including the March 3 call about NonStop Server as an integration hub for data and applications).

Service and support news

25) NonStop Server for Java Message Service 4.0 available as IP

NonStop Server for Java Message Service 4.0 is now available to order as an Independent Product (IP). This version of the software is an implementation of the Sun standard Java Message Service (JMS) and includes a JMS Provider to the Open System Services (OSS) environment of the NonStop operating system. The JMS Provider allows multiple JMS clients to work with point-to-point messages via queues and publish-and-subscribe messages via topics through a Java application programmatic interface (API). NonStop SQL/MX software is used as the underlying technology to provide persistence, and the Admin utility is used to create and maintain JMS topics and queues. NonStop Server for Java Message Service 4.0 includes the JMS C++ API and the Reliable Messaging components. For additional details, see [Support Note S05007A](#).

26) NonStop CORBA 2.6.1a V4 available as IP

NonStop CORBA 2.6.1a V4 can be ordered now as an Independent Product. This implementation of the software is based on the Object Management Group's version 2.6 Component Object Request Broker Architecture. This is a maintenance release and provides only defect repair. It has been qualified to run on G06.20 and later G-series RVUs of the NonStop operating system. There is an upgrade credit available to supported customers migrating from NonStop CORBA V3. For further details, see [Support Note S05005](#).

27) HP Atalla Boxcar2 with NSP Diagnostics Update 6 available as IP

HP Atalla Boxcar2 with NSP Diagnostics Update 6 is available to order as an Independent Product. This product supports communication between client applications running in the NonStop server environment and with an Atalla security processor. This latest version of Boxcar ensures that a new backup will be created when the primary process is manually stopped. For additional details, see [Support Note S05006](#).

28) HP Atalla Resource Manager (ARM) Update 5 available as IP

HP Atalla Resource Manager (ARM) Update 5 is now available for ordering as an Independent Product. This release provides a feature that prevents keys with overlapping validity periods from being added into the ARM database. It supports specification of a default group for ARM Pass-Thru commands and corrects a defect that prevented loading of non-exportable keys into the ARM database via the ARMCOM ADD KEY command. A new ARM load balancing algorithm evenly distributes the load among all logical Atalla network security processors in each group, and ARM Extended Pass-Thru command performance has been improved. This release is qualified to run on RVU D42.00 or later of the NonStop operating system. For more information, see [Support Note S05008](#).

29) NSC Installer CD S7X-SWV1 Update 4.1 now available

The NonStop S-series System Console (NSC) Installer CD S7X-SWV1 Update 4.1 is now available to order. This version of the console CD is compatible with the Windows® 2000 Professional operating system and Windows XP. For further details, see [Support Note S05011](#).

30) 3886 AWAN product changes

New versions of Asynchronous Wide Area Network (AWAN) 3886 hardware models are now shipping. These new models are functionally identical to the older ones but have new model numbers. For further details, see [Support Note S02089A](#).

31) Support note for navigating G06.25 NTL CD/DVD Upgrade Planning link

This support note helps customers navigate the NonStop Technical Library (NTL) G06.25 CD and G06.20-G06.25 DVD to find the *Interactive Upgrade Guide 2*. Currently, the “Upgrade Planning” link, which should connect to the guide, returns an error. For additional details, see [Support Note S05015](#).

32) Software release special considerations for an RVU G06.23 upgrade

This new support note provides a list of software product releases (SPRs) that customers should consider first when planning an upgrade to RVU G06.23 of the NonStop operating system. Customers should evaluate the SPRs listed here before evaluating other software and select the software that offers specific, identifiable benefits for a particular system and implementation. Note that if RVU G06.23 is already in place and the installation of a general collection of accumulated defect repairs for all products is desired, HP strongly recommends that customers upgrade to a more recent RVU rather than installing numerous SPRs. HP will update the list in this support note periodically and will republish it with the same support note number. For additional details, see [Support Note S05010](#).

33) Eliminate battery differential false alarms

Battery-differential testing in a NonStop S-series system can sometimes report erroneous results. This support note describes new versions of TSM and NonStop Open System Management (OSM) software that eliminate battery differential false alarms. NonStop operating system RVU G06.25 and later include this functionality in both TSM and NonStop OSM software. For additional details, see [Support Note S05009B](#).

34) SWAN2 firmware update

This support note describes HP recommendations for customers who have experienced an intermittent HP ServerNet Wide Area Network 2 (SWAN2) firmware update failure that can occur when the SWAN Base SPRs are used with the SWAN Kernel. For more information, see [Support Note S04156-INT](#).

Fun stuff

35) HP technology gives BMW WilliamsF1 team a flying start to 2005 season

At the launch of the 2005 BMW WilliamsF1 Team car—the FW27—HP [announced](#) that the WilliamsF1 design team was able to assess twice as many aerodynamic models in computational fluid dynamics this year than ever previously possible, thus allowing the team to investigate the optimal design for the car. The aerodynamic and structural characteristics of the FW27 were modeled on a powerful HP supercomputing infrastructure, with flexible capacity provided by a utility computing system at HP Labs Bristol. This facility, which provides enterprise customers with a pay-as-you-go resource, allowed the WilliamsF1 team to manage peaks in workload. HP technology enabled the team to perform design

simulation of 1.3 terabytes of aerodynamic data. The results of the simulations have allowed the team to optimize solutions for front and rear wings, brake ducts, and radiator ducts without the expense and time of fabrication or wind tunnel testing. The utility computing facility at HP Labs and the installation of a new HP cluster platform 4000 Supercomputer system as WilliamsF1's primary computing resource at their Grove, UK, headquarters have increased the team's computer modeling capabilities in 2005 by more than a factor of three.

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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