

NonStop Computing Update

April 2004

Welcome to the April 2004 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 an email to scott.lerner@hp.com. Your comments, questions, and suggestions are always welcome.

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NONSTOP SERVER NEWS

1) New availability book written by longtime NonStop server supporters

Need more 9s? Customers can achieve tremendous improvements in NonStop server availability with “system splitting” as detailed in the new book *Breaking the Availability Barrier: Survivable Systems for Enterprise Computing*, written by former ITUG chairman Dr. Bill Highleyman and his colleagues Paul J. Holenstein and Dr. Bruce Holenstein. The book describes the current techniques that can be used to extend the time between system failures from years to centuries, often at little or no additional cost. The authors have a combined experience of more than 80 years in the implementation of fault-tolerant, highly available computing systems. Their experience ranges from the early days of custom redundant systems to today’s fault-tolerant offerings. Jim Gray, a well-known database and availability expert, comments, “Wow! What a great book. Very readable, very direct.” Terry Shannon, industry analyst and author of the *Shannon Knows High-Performance Computing* newsletter, writes, “Arguably the most comprehensive book on fault-tolerant systems ever authored by experts.” To view a complete table of contents, excerpts from two chapters, and ordering information, visit http://www.iticsc.com/new_book.html.

2) NonStop Server for Java Version 3.1, Update 5 now available

This version of NonStop Server for Java software is based on the Java 2 Platform, Standard Edition software development kit (SDK) 1.3.1 from Sun and is a fully compliant Java development kit (JDK). Java Database Connectivity (JDBC) drivers from HP conform to the JDBC 2.1 application program interface (API) specification published by Sun Microsystems. Update 5 contains defect repair including JDK 1.3.1.09 and JDK 1.3.1.10 patches from Sun. The JDBC/MP V21 driver provides JDBC access to NonStop SQL/MP software. The JDBC/MX driver for NonStop SQL/MX 1.8.5 (AAD) software product revision (SPR) contains defect repair. This update has been qualified to run on Release Version Update (RVU) G06.14 and later G-series RVUs of the NonStop Kernel operating system. The JDBC/MX drivers have been qualified to run on G06.18 and later G-series RVUs. NonStop Server for Java 3.1 software is available on NonStop S-series platforms only. For further details, see Support Note S04022 at <https://onepoint.nonstop.compaq.com/buildpage.asp>.

3) SequeLink Server now available for NonStop SQL/MX, Update 3 database

DataDirect SequeLink Server software enables Open Database Connectivity (ODBC) and JDBC developers to develop, compile, test, and ship applications without targeting a specific database. Users can then add database drivers, which link the application to a database of their choice. The software provides ODBC drivers for different platforms. The JDBC driver is a type 3 driver (remote) that can be installed on any Java platform (including NonStop servers). This product update contains the SequeLink software for the NonStop server as well as other platform drivers based on the DataDirect SequeLink 5.4 software. For further details on the enhancements included with this release, see Support Note S04023 at <https://onepoint.nonstop.compaq.com/buildpage.asp>.

4) NonStop CORBA 2.3 Update 11 software now available

NonStop CORBA 2.3 is an implementation based on the Object Management Group's version 2.3 Common Object Request Broker Architecture (CORBA). Update 11, a maintenance release that provides only defect repair, is recommended for installation when moving to B13 from B12 versions instead of the previous B13 releases. This update has been qualified to run G06.00 and later G-series RVUs. NonStop client software runs on Microsoft® Windows® 95 and Windows NT® 4.0 operating systems. (Note that NonStop CORBA 2.3 Update 11 should not be confused with NonStop CORBA 2.6.1, announced in last month's *NonStop Computing Update* newsletter. The latter product is a newer version of NonStop CORBA software and includes NonStop Server for Java 4 support, IOP/SSL for the Java ORB, and support for Enterprise Toolkit 2.0.) For additional information on NonStop CORBA 2.3 Update 11, see Support Note S04024 at <https://onepoint.nonstop.compaq.com/buildpage.asp>.

5) NonStop AutoTMF Update 4 changes minimum operating system levels

Update 4 (T0581V03 AAG) of NonStop AutoTMF software (product ID SA45V1) adds new functionality and changes the way that some existing features are supported. Consequently, installation of this updated product requires RV D45 or later or RVU G06.14 or later. Customer systems that don't meet these requirements may continue to license update 3 on the previous RVU. Update 4 includes some exciting new features, such as

- Support for more than 100 concurrent transactions (for systems that support this feature)
- Easier migration of AutoTMF configuration from one system to another
- Support for file transfer protocol (FTP) to write to audited, unstructured files

Some of the new features may be available only on NonStop S-series servers. For further details, visit

<http://h71033.www7.hp.com/object/ATMFUP4XNW.html>.

6) Procedures for viewing NonStop RDF event details in ViewPoint

The HP ViewPoint product uses the event detail database (EVENTTD) to populate event detail information (cause, effect, and recovery) for HP Event Management Service (EMS). The standard EVENTTD file does not include template details for NonStop Remote Database Facility (NonStop RDF) software until the user explicitly requests it. For users who do not use ViewPoint or do not need the additional information provided in the NonStop RDF event details, the EMS template installation procedures documented in the NonStop RDF Softdoc are sufficient. A newly released support note, however, supplements the EMS template installation procedures included in each NonStop RDF Softdoc by documenting the steps necessary to add the template (ZRDFTMPL) to the event detail database.

For further details, see Support Note S04026 at

<https://onepoint.nonstop.compaq.com/buildpage.asp>.

7) BEA WebLogic Server 8.1 Service Pack 2 is now available

BEA WebLogic Server 8.1 Service Pack 2 (SP2), sold and supported by BEA Systems, is now available for NonStop S-series servers. New features of the WebLogic 8.1 family are mainly for improved integration of the various parts. There

are only a few new features in WebLogic Server itself, although there have been some enhancements. New features include

- Performance improvements through support for NonStop Server for Java 4 software (HotSpot)
- Streamlined installation process
- An HP iTP WebServer plugin, to enable iTP WebServer to be used as an on-platform load balancer
- Native socket multiplexer for higher performance
- Terminal I/O library for not echoing password
- Enhanced node manager launch program provided both as a shell script and a higher-performance C program (source and object code provided)

Note that BEA WebLogic Server 8.1 SP2 requires NonStop Server Toolkit for BEA WebLogic Server 8.1 SP2 to function correctly on NonStop servers. The toolkit is free, is orderable through CPSA (product ID SE12V2), and can be downloaded from the NonStop eServices portal. For questions about WebLogic Server 8.1 on NonStop servers, contact jim.peters@hp.com at +1 (408) 285 9585. For further details on SP2, visit

<http://www.hp.com/go/wls81sp2>.

8) Bank-Verlag meets mixed-workload challenge with NonStop servers

Any student of German would naturally expect the language to transform “mixed workload” into a delightfully complex and unpronounceable compound word. Not so, however; the best that Wolfgang Breidbach and his colleagues could come up with was an unsatisfactory *Mischbetrieb*. “We basically just say ‘mixed workload.’” admitted Breidbach, who is head of system services at Bank-Verlag in Cologne. Bank-Verlag provides both publishing and IT services for Germany’s 300 private banks. A new success story on Bank-Verlag’s application of NonStop systems is available at

<http://www.nonstop.compaq.com/object/BANKVERLSS.html>.

9) NonStop servers featured in HP advertisements

NonStop server customers such as Travelocity, Barclaycard, Sprint, NYSE, and U.S. agencies running 911 systems have been featured in several recent HP print advertisements. These ads can be viewed at the following page, which also contains some attractive posters.

<http://h71033.www7.hp.com/page/ADVRTMT.html>

GENERAL NEWS

10) HP provides new disaster recovery plan for Land O’Lakes

A March 16 *InfoWorld* article by Juan Carlos Perez reports, “Land O’Lakes tried for years to come up with an appropriate plan and infrastructure for disaster recovery and business continuity. The \$6 billion food and agricultural cooperative worked with a variety of vendors, none of which provided it with services and plans that Land O’Lakes IT management found sufficiently broad, flexible and effective. . . . ‘We struggled with disaster recovery as many organizations have . . . ,’ said Land O’Lakes Chief Information Officer Mark Wilberts. . . . ‘HP came forward and has been a very flexible partner and responded to our needs,’ Wilberts said. ‘Between their hot site, the office recovery center and the network, we were able to put

together a complete realistic solution to our disaster recovery needs at a cost-effective price and they've been very flexible at making that solution package feasible,' he added. This is the 11th disaster recovery facility HP has in the U.S.—some are full-blown data center hot sites and others are office recovery centers—and the 19th in the Americas, said a spokesman for HP. HP has plans to open two or three more this year in the region, said Belinda Wilson, HP's director of business continuity services for the Americas.”

http://www.infoworld.com/article/04/03/16/HNlandolakes_1.html

PARTNER NEWS

11) Sabre Holdings uses GoldenGate for its data synchronization needs

Sabre Holdings implemented GoldenGate's Data Synchronization Software in the migration project of its massive Air Travel Shopping Engine (ATSE) and Low Fare Lookup application. The migration from the current system onto a platform anchored by NonStop architecture and a farm of commodity servers running Linux was necessary to accommodate industry growth and the need for a cheaper, faster, and better infrastructure. Sabre Holdings is renowned for its airline reservation network, which was the world's first computerized transaction-processing system, and for Travelocity, the ground-breaking website that set influential e-commerce standards for usability and performance in the mid-1990s. For more information on Sabre and its use of GoldenGate software, see the case study at

<http://www.insession.com/goldengate/sabre.pdf>.

12) Virtual TapeServer now supports all StorageTek tape libraries and silos

Tape Laboratories (TapeLabs) is pleased to announce that Virtual TapeServer's optional support for StorageTek's 9310 PowderHorn silo, Automated Cartridge System Library Software (ACSLs), and SN6000 is available for production installations. TapeLabs has offered NonStop server connectivity to StorageTek products since 1993. Virtual TapeServer offers seamless connectivity to more than 160 tape devices and 170 tape libraries, including all StorageTek and NonStop system tape devices. Available through HP, Virtual TapeServer is in full production use by several NonStop server customers. For more information, contact TapeLabs at +1 (310) 577 1700, or visit

<http://www.tapelabs.com>.

13) Data compression for Virtual TapeServer is now available

TapeLabs announces the availability of its data compression option for Virtual TapeServer. This feature allows Virtual TapeServer to compress all backup data and TMF files as they are being written to the attached RAID or SAN, easily doubling available storage capacity and significantly reducing associated storage costs. The extremely fast “on-the-fly” compression algorithm, developed by TapeLabs specifically for Virtual TapeServer, exacts no overhead and in many cases actually increases performance and throughput. Virtual TapeServer is available through HP and is in full production use by multiple referenceable NonStop system customers. For more information, contact TapeLabs at +1 (310) 577 1700, or visit

<http://www.tapelabs.com>.

14) HP Pocket ViewPoint SPR AAA released for general availability

Based on Microsoft Pocket PC 2002 or Windows Mobile 2003 software for handheld computers, HP Pocket ViewPoint is a graphical and wireless tool to monitor and interface with NonStop servers. SPR AAA for Pocket ViewPoint software (product ID SJ71V1) was released for general availability on March 19. This release is mainly meant to provide a relief for a communication issue associated with Pocket PC 2003 and Pocket IE. Minor product improvements have also been incorporated. For further information, visit the following password-protected site:
<http://www.hppocketviewpoint.com/news.asp>.

15) Tributary Systems announces comprehensive VTS remote copy feature

The remote copy feature of the Tributary Systems (TSI) Virtual Tape Solution (VTS) can reduce or eliminate the need for offsite tape movement for disaster recovery or other purposes. Compressed tape data is sent to a remote tape drive, either physical or emulated. With an emulated tape drive, the local VTS sends tape data via Fibre Channel or Ethernet to a remote VTS virtual volume. Furthermore, remote copy can be bidirectional; for example, site A can send data offsite to site B and vice versa. For more information on the VTS remote copy feature, contact TSI Sales at +1 (817) 354 8009 or visit
<http://www.tributary.com/>.

USER GROUP NEWS

16) Letter from Pauline Nist showcases the benefits of ITUG membership

In a March letter intended for every NonStop server customer, Pauline Nist, general manager of the NonStop Enterprise Division, wrote, "HP is enthusiastic in its support of ITUG, the International HP NonStop Users Group—an independent, not-for-profit user organization. Membership in ITUG gives you access to a wealth of information and expertise you can't find anywhere else. And participation in ITUG events arms you with knowledge you can take back to your company to help increase its return on investment and get the most from your NonStop solutions. If you are not yet a member of ITUG, I encourage you to join now! ITUG membership benefits include

- *The Connection* journal subscription
- Discounted admission to the ITUG Summit and ITUG European Conferences
- ITUGLIB, a library of software utilities for NonStop systems
- ITUG Member, Vendor, and Consultant Directories
- Regional user groups
- Career Center, Special Interest Groups (SIGs), and advocacy

ITUG offers a variety of additional resources specifically for the NonStop community. Details about these benefits and other aspects of ITUG can be obtained by visiting the ITUG website or by calling ITUG Headquarters at (800) 845 4884 (within the U.S.) or +1 (312) 321 6851 (from outside the U.S.). I encourage you to complete and send an ITUG membership application or join online today to take immediate advantage of the advocacy and the shared knowledge of ITUG membership."

<http://www.itug.org>

17) Registration open for 2004 ITUG European Conference in Madrid

Registration is now open for the 2004 ITUG European Conference. This event, to be held June 7–9 at the Auditorium Madrid Hotel in Madrid, Spain, brings together the NonStop community of Europe, the Middle East, and Africa (EMEA). Through educational and networking offerings designed specifically for NonStop users, attendees can build on their technical knowledge and network with NonStop professionals from companies throughout EMEA as well as HP employees. The conference will feature

- Optional preconference educational seminars (June 7)
- NonStop Partner Summit (June 6–7)
- Rudi Schmickl, Laurent Blanchard, Scott Stallard, and Pauline Nist as HP executive speakers
- Industry analyst keynote session
- More than 40 NonStop system–focused technical sessions presented by users, vendors, and NonStop specialists
- Special minitrack emphasizing telecommunication solutions covering a broad spectrum of solutions based on the NonStop Open Call Intelligent Network Server
- SIG sessions
- Free HP Certification Professional program exam overview sessions and testing center (free to registered conference attendees)
- An exhibit hall showcasing NonStop products, solutions, and services as well as exhibits from more than 30 partners and vendors
- Plenty of networking opportunities

Visit the 2004 ITUG European Conference website for additional information and registration forms.

<http://www.itug.org/events/euro/2004/index.cfm>

18) NonStop Partner Summit precedes ITUG European Conference

The EMEA NonStop Partner Summit will be held June 6–7, immediately preceding the ITUG European conference and at the same location. There is no registration fee to attend this event if you are a member of the Developer and Solution Partner Program (DSPP). If you are not a DSPP member and would like to attend the event, you can register for the NonStop Partner Summit and sign up to become a DSPP member at the event. Note that there is no fee to become a DSPP member. The registration website is live and the latest agenda details are posted. If you have any questions, contact lisa.hansen@hp.com. If you plan to attend this event and have not yet registered, log on to <https://programs.regweb.com/hp/emea/spain/>.

19) Register today for the OZTUG 2004 Conference & Trade Show in July

Register today for the OZTUG 2004 Conference & Trade Show, scheduled for July 26–27 in Sydney, Australia, at the Stamford Plaza Double Bay Hotel. Delegates registering before April 16 save up to AUD\$200 off their full conference registration. This event is designed specifically to meet the needs of NonStop server users through the latest in technical education and peer-to-peer networking. Managed by ITUG, this conference provides attendees with a way to participate in their regional NonStop community while accessing the global knowledge of ITUG and HP.

Technical sessions will be presented by local and overseas HP technical professionals, senior executives, business partners, and other users. Tracks include Business Solutions; Technical & Development; and Operations, Systems & Hardware. For more information and online registration, visit <http://www.oztug.org/events/2004/>.

20) Worldwide Survey of HP Customers is now online

The Worldwide Survey of HP Customers, an independent survey sponsored by HP user groups, is currently online. Participants can respond to the survey at the website below and will be entered into a drawing to receive a US\$1,000 cash grand prize or other valuable prizes. In addition, all NonStop product users who fill out the NonStop product section will be entered into a drawing to receive an HP iPAQ Pocket PC.

<http://www.hpcustomersurvey.org/>

21) Regional user group updates

ATUG: The Atlanta Tandem Users Group

<http://www.itug.org/regions/atug/index.html>

BITUG: The British Isles HP NonStop User Group (meeting in Reading, England) held its annual conference on March 16–17, preceded by an HP Education Day on March 15. The conference included user, SIG, and vendor sessions, in addition to presentations by HP. For details, visit the BITUG website at

<http://www.bitug.com/>.

CTUG: The Canadian Tandem Users Group (meeting in Toronto) will hold a conference April 14–15 in Toronto. This year's theme is "NonStop [systems] in a Diverse World: Integration in Business and Technology." For details, visit the CTUG website at

<http://www.ctug.ca/>.

DUST: The Desert USers of Tandem (meeting in Phoenix, Arizona) will hold its next meeting on April 6. For more information, visit the DUST website at

<http://www.itug.org/regions/dust.cfm>.

FTUG: The French regional HP NonStop User Group (meeting in Paris) held a recent meeting on March 18 that included a presentation by ITUG Chairman Richard Buckle, along with presentations on the HP Roadmap, NonStop SQL, and performance information about NonStop servers. For details, visit the FTUG website at

<http://www.ftug.org/>.

FINTUG: The Finnish regional HP NonStop User Group

<http://h40128.www4.hp.com/services/eventcalendar/>

GTUG: Members of the German Tandem Users Group are busy planning for their upcoming conference May 12–13 in Sindelfingen. The theme of the conference is manufacturing. For more information, visit the GTUG website at

<http://www.gtug.de/index.html>.

HUG: The Houston User Group will holding an HP Education Day on April 14. For details, visit the HUG website at

<http://itug.org/regions/hug.cfm>.

INUG: The Iberian NonStop User Group is revitalizing and needs help in the reformation. Users in Spain and Portugal are asked to fill out a survey form at the website below. Anyone interested in getting involved can send email to itug-rugs@itug.org.

<http://www.itug.org/regions/inug.cfm>

KNUG: HP and ITUG will sponsor an Asia-Pacific and Korean NonStop User Group meeting June 14–16 at the Intercontinental Hotel in Seoul. The meeting will bring together NonStop system users and prospects from Korea and other Asian countries to learn more about NonStop products, services, and solutions. The meeting will consist of general sessions, an exhibition, and track sessions focused on three areas: NonStop Solutions, Middleware and Application Development, and NonStop Systems and Services. A Partner Summit and an Education Day will follow. Details will soon be posted to the KNUG website.

<http://www.itug.org/regions/knug/index.cfm>

LATUG: The Latin America Tandem Users Group serves NonStop product customers in Argentina, Bolivia, Brazil, Chile, Colombia, Mexico, Paraguay, Peru, Puerto Rico, Venezuela, and Uruguay. For more information, visit the website.

<http://itug.org/regions/latug.cfm>

MATUG: The Mid-Atlantic Tandem Users Group

<http://www.iticsc.com/matug>

METUG: Middle East Tandem Users Group

<http://itug.org/regions/metug.cfm>

Midwest Region: Several midwest user groups recently held the March 2004 Midwest Roadshow, which covered open applications, modular storage, and the upcoming Itanium[®]-based NonStop server. For details, visit the Midwest RUG website at

<http://www.itug.org/regions/Midwest.cfm>.

TUMS: Tandem Users of the Minneapolis/St. Paul Area held the roadshow on Monday, March 8.

<http://www.itug.org/regions/tums.cfm>

MITUG: Michigan Tandem Users Group (Detroit) held the roadshow on Tuesday, March 9.

<http://www.itug.org/regions/mitug.cfm>

MRTUG: Midwest Region Tandem Users Group (Chicago) held the roadshow on Wednesday, March 10.

<http://www.itug.org/regions/mrtug.cfm>

MCTUG: Mid-Continent Tandem Users Group (Kansas City, Missouri) held the roadshow on Thursday, March 11.

<http://www.itug.org/regions/mctug.cfm>

OTUG: Ohio Tandem Users Group (Columbus): held the roadshow on Friday, March 12.

<http://www.itug.org/regions/otug.cfm>

MSTUG: The Mid-Southern States NonStop Users Group held a meeting on March 26. For information, visit the MSTUG website at

<http://www.itug.org/regions/mstug.cfm>.

N2TUG: The next meeting of the North Texas and Oklahoma Tandem Users Group will be held on April 16. For registration information and to review the meeting agenda, visit <http://itug.org/regions/n2tug.cfm>.

NCTUG: Northern California Tandem User Group (meeting in Cupertino) will hold its next meeting on April 29. There will be a presentation on the Itanium architecture and an update on NonStop S-series servers. The NCTUG website is at <http://www.zlemail.com/nctug/nctug.htm>.

NRTUG: The Northeast Regional Tandem Users Group
<http://www.itug.org/regions/nrtug.cfm>

OZTUG: The Australian NonStop User Group (Sydney, Australia) will hold its annual conference and trade show July 26–27. For details, visit the OZTUG website at <http://www.oztug.org/>.

PNUTS: Pacific Northwest Users of Tandem Systems
<http://itug.org/regions/pnuts.cfm>

RMTUG: The Rocky Mountains Tandem Users Group will hold its next meeting on June 4.
<http://itug.org/regions/rmtug.cfm>

SATUG: The Southern African NonStop Server User Group
<http://www.satug.org/>

SCTUG: Southern California Tandem Users' Group (El Segundo, California)
<http://itug.org/regions/sctug.cfm>

STLTUG: St. Louis, Missouri, regional affiliate of ITUG
<http://www.itug.org/regions/STLTUG.cfm>

SUNTUG: The Florida HP NonStop Users Group will hold an HP Education Day on April 21. The topic will be Open System Services (OSS) Programming Fundamentals. For details, visit the SUNTUG website at <http://www.suntug.org/>.

VNUG: The Viking NonStop User Group will hold its 2004 conference in Stockholm, Sweden, on April 19–20. For details, visit the VNUG website.
<http://www.vnug.biz/>

EDUCATION NEWS

22) Success of NonStop University noted in *Performance Improvement Journal*

NonStop University currently serves the computer product training needs of 2,500 HP staff users in more than 50 countries in North America, South America, Asia, and Europe. In just 18 months, the number of users, the amount of use, and user performance levels have increased worldwide—beyond management expectations. Due to its great success, NonStop University was highlighted recently in an article published in *Performance Improvement Journal* by the International Society for Performance Improvement (ISPI). As the article explains, NonStop University fulfills

the new demands of corporations: "Creating communities where colleagues share and contribute new insights, ideas, tips, or points of view on a company problem—no matter where the performer is in time and space—will be a powerful uniting tool in an expanding global enterprise."

<http://www.nonstop.compaq.com/object/NSUNVHINW.html>

SERVICE AND SUPPORT NEWS

23) Support note lists SWAN configuration and FFU recommendations

A support note has been created that highlights HP ServerNet Wide Area Network (SWAN) configuration recommendations in Section 4 of the WAN Subsystem Configuration and Management Manual and lists some additional configuration recommendations. Deviating from these recommendations might sometimes lead to a Fast Firmware Update (FFU) failure. This support note also discusses how to prevent FFU failure. For further details, view Support Note S04029 at

<https://onepoint.nonstop.compaq.com/buildpage.asp>.

FUN STUFF

24) HP and BMW WilliamsF1 gear up for 2004 circuit

BMW WilliamsF1 unveiled this year's title contender, the FW26, on January 25 at the Valencia circuit. The new car features an innovative front wing and nose assembly and redeveloped aerodynamics throughout the chassis. HP Linux supercomputing played a major role in the car's development. Since the HP platform was introduced throughout 2003, the team has been able to enhance aerodynamic simulation capabilities by a factor of three, making car design and analysis more efficient. Detailed computational fluid dynamics (CFD) simulations allow a wider range of solutions to be explored during the team's tight development time frames. Thanks to HP, elements of the design process were reduced from three days to just 14 hours. Already, signs are promising that the FW26 will help BMW drive into the champion seat. During preseason testing, the team's drivers, Juan Pablo Montoya and Ralf Schumacher, posted fastest lap times in the 2004 car. For more information on the FW26, visit the website below and select "Team" and "FW26" from the navigation bar at the top of the screen. For more information on HP's role, select "Team" and "Partners" from the navigation bar.

<http://bmw.williamsf1.com>

25) Results of the Australian Grand Prix season starter

The 2004 Formula One season kicked off with the Australian Grand Prix in Melbourne on March 7, with BMW WilliamsF1 Team drivers Ralf Schumacher and Juan Pablo Montoya finishing in fourth and fifth positions, respectively, and scoring nine points. Michael Schumacher of Ferrari won the race ahead of his teammate Rubens Barrichello and ahead of Renault's Fernando Alonso. Jenson Button (B.A.R. Honda), Jarno Trulli (Renault) and David Coulthard (McLaren Mercedes) scored the final points behind the BMW WilliamsF1 team's pairing.

http://www.bmw.williamsf1.com/session:59D19EC2011996DF7217F44B6C492E3/MS/en/4_serien/41_f1/411_news/rennen/01_australien/berichte/Rennen.4ml

26) Montoya takes second place at Malasian Grand Prix

After a competitive performance in the Malaysian Grand Prix in Kuala Lumpur on March 21, Juan Pablo Montoya scored his first podium result of the season. Unfortunately, teammate Ralf Schumacher had to retire on lap 28 due to engine failure. Nevertheless, the BMW WilliamsF1 team reduced the gap to Ferrari, whose Michael Schumacher won the race. Jensen Button finished third. The next race is the Grand Prix of Bahrain, which takes place on April 4.

http://www.bmw.williamsf1.com/01-36818542858551DB8BE58B3D90C30D2F/ms/en/4_serien/41_f1/411_news/rennen/02_malaysia/berichte/Rennen.4ml?lastSessionID=F9E9520FD32CD11992D1BC7562D9FD7B

IMPORTANT PHONE NUMBERS AND LINKS

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

NonStop Computing News

The very latest NonStop product news.

<http://h71033.www7.hp.com/page/NonStopNews.html>

Global Customer Support Center: 1 (800) 255 5010 (U.S. only)

Technical hardware and software defect support and usage assistance.

<http://support.nonstop.compaq.com/GCSC.html>

NonStop Presales Group: 1 (800) 282 6672

Product information, price quotations, order processing information.

<http://h71033.www7.hp.com/page/CRC.html>

NonStop eServices portal

A convenient, password-protected portal with access to a wide variety of services.

<https://onpoint.nonstop.compaq.com/buildpage.asp>

Partnerships and solutions

Information on strategic partnerships, partner products, services, and solutions.

<http://h71033.www7.hp.com/page/Partners.html>

NonStop technology education 1 (800) 472 5277

Education schedules, information, prices, and class enrollments.

<http://h71033.www7.hp.com/page/Education.html>

NonStop Technical Library

A wide range of NonStop product publications, including technical manuals, articles, and support information.

<http://h30163.www3.hp.com/Default.asp>

NonStop Direct online store: 1 (800) 482 6336

Convenient product ordering by phone or the Web.

<http://direct.nonstop.compaq.com/>

Business continuity and disaster recovery solutions

Basic information about business continuity, NonStop server products and services for business continuity and disaster recovery, and customer successes.

<http://www.hp.com/go/nonstopcontinuity>

Software developers' information

Information for developers of NonStop system applications.

<http://h71033.www7.hp.com/page/ADE.html>

Interactive Upgrade Guide

An interactive tool to help plan system release migrations.

<http://h71033.www7.hp.com/TechPubs/IUG/default.htm>

Internet-enabled applications

Preserving your investment in NonStop system business applications and databases while applying the latest Internet technologies.

<http://h71033.www7.hp.com/page/IntEnab.html>

Product information for NonStop servers

<http://h71033.www7.hp.com/page/NonStopServers.html>

ITUG, a user group for the NonStop server community: +1 (312) 321 6851

<http://itug.org>

Customer support

<http://h71033.www7.hp.com/page/CustomerSupport.html>

A One-Stop Site for Service Providers

<http://h18000.www1.hp.com/enterprise/sp/>

Privacy statement

<http://welcome.hp.com/country/us/en/privacy.html>.

For more information, go to www.hp.com/go/nonstop.

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