COMPAQ

Inspiration Technology

Compaq OpenVMS Times

e-business without compromise
www.compaq.com/openvms

Our new look

Beginning with this edition, *OpenVMS™ Times* now reflects the new Compaq corporate brand. While the look has changed, the newsletter continues to bring you all the latest and greatest news about *OpenVMS*.

Compaq is a leader in IPv6 — the next generation Internet Protocol

The Internet Protocol Version 4 (IPv4) has been both an agent of change and a barrier to growth. Emerging technologies — such as next generation mobile terminals, network appliances, sensors, and always-on devices — require large numbers of IP addresses. The number of Internet users is projected to grow from 240 million this year to 600 million by 2004[1]. Every year, 25-30 percent more portable computers are sold than the previous year. Worldwide wireless subscribers are projected to grow from 450 million this year to nearly one billion by 2005[2]. The number of mobile handsets will overtake the number of fixed lines within a couple years[2]. Can IPv4 support the Internet's rapid expansion and demand for enhanced services? There is an engineering limit to the amount of hacks and Band-Aids required to keep IPv4 running. These demands will be the "killer application" for the replacement of IPv4.

The Internet Protocol Version 6 (IPv6), the next generation Internet Protocol, was standardized by the Internet Engineering Task Force (IETF) in 1998. With its addressing, scalability, security features, ease-of-configuration, and network management capabilities, IPv6 is of vital importance to consumers and businesses.

By supporting IPv6 across all product lines and providing for the transition now instead of later, Compaq is building a solid market lead, helping our customers and partners to sustain their businesses, and avoiding another industry-wide chaotic Y2K-like transition.

Successful market adoption of this new technology suite will be based on its ability to integrate with the existing IPv4 infrastructure without significant disruption to services. Given the millions of existing IPv4 network nodes, IPv4 and IPv6 protocols will coexist for an extended period of time. To address this requirement, IPv6 was designed carefully to ensure that hosts or routers can be upgraded in an incremental manner. That's why Compaq is using dual IPv4 and IPv6 stack technology with its *AlphaServer*™ systems for both *OpenVMS* and *Tru64*™ UNIX.

Compaq has been a vital part of the IPv6 story since its beginning, when IPv6 was selected by the IETF. Compaq is proud to have announced support for production IPv6 on *Tru64* UNIX 5.1 in September 2000 and production IPv6 on TCP/IP services for *OpenVMS* 5.1 in January 2001.

Compaq will roll out IPv6 support in stages with the goal of ensuring a smooth transition and deployment where updated applications can take advantage of the new protocol, without breaking existing applications. Our initial IPv6 support is limited to a set of core functionality, utilities and libraries that allow customers to begin deploying IPv6 in their networks, and allow ISVs and other application developers to begin porting to IPv6. We have partnered with SSH Communications Security, Inc. (SSH) to provide IP security support, which will become available in 2002. Additional IPv6 features will be phased into future releases. For more information on IPv6 Support for *OpenVMS*, visit
www.openvms.compaq.com/network/tcpip.html

1 Source: "Mobile Computing Forecast: 2000," Gartner Advisory, Dataquest, August 7, 2000

2 Source: "Third Generation Wireless: The Impact on Global Competition," ICM Global Intelligence, November 1999

OpenVMS complies with HIPAA security requirements

Compaq is pleased to report that *OpenVMS*, along with selected layered products, meets all proposed technical security requirements of the Health Insurance Portability and Accountability Act of 1996 (HIPAA). A comprehensive investigation was recently completed to address all the security standards established for HIPAA compliant systems.

This compliance means that Compaq's many healthcare customers who rely on *AlphaServer* and *VAX*™ systems running *OpenVMS* can be assured that *OpenVMS* will be fully compliant as HIPAA security standards are implemented. Compaq products and services can be depended on to ease the HIPAA implementation for all healthcare customers.

What is HIPAA?

HIPAA is U.S. federal legislation aimed at health plan issuers, group health plans, and, in some instances, employers. HIPAA requires the U.S. Department of Health and Human Services to adopt uniform security standards for sensitive healthcare information.

OpenVMS meets all technical security requirements

The Compaq *OpenVMS* Group recently completed a comprehensive investigation to determine the compliance of *OpenVMS* and selected layered software products with the proposed HIPAA standards. A white paper addresses all the security standards established for HIPAA compliant systems and details the *OpenVMS* compliance investigation.

Compaq already tests and/or uses these products as part of the *OpenVMS* release qualification process. *OpenVMS* V7.2 already meets or exceeds the existing HIPAA Security Standards, and Compaq intends to comply with HIPAA in future versions of *OpenVMS*.

OpenVMS in the news

Read about the Sydney Futures Exchange, which will run its new application on *OpenVMS*-based *AlphaServer* systems, in a recent Compaq press release "Compaq Extends Capital Market Leadership with Exchange Wins in Toronto, Montreal and Sydney." Visit www.compaq.com/newsroom/pr/2001/pr2001011801.html

OpenVMS was also part of the recent Compaq *AlphaServer* ES40 announcement. The press release, entitled "Newest Addition to Compaq's *AlphaServer* ES40 Product Line" is available at www.compaq.com/newsroom/pr/2001/pr2001021201.html

The following Compaq Solutions Alliance (CSA) partners issued press releases about new products supporting *OpenVMS*:

Integrated Computer Solutions: "ICS' BX 5.0 Now Available on *OpenVMS*-based *AlphaServer* Systems." Visit www.ics.com/forum/forum.php?forum_id=40

TECSys Development, Inc.: "TECSys Development's ConsoleWorks is Console Management Solution of Choice for Compaq *AlphaServer* GS Series." For more information, visit www.tditx.com/

U.S. Design: "U.S. Design Announces Support for the Next Generation 5.25-inch (9.1 Gbyte) and DVD (9.4 Gbyte) Technology Under Compaq *OpenVMS*." For the story, visit www.usdesign.com

PointSecure, Inc.: "PointSecure Inc. Completes Acquisition of *OpenVMS* System Monitoring and Detection Intrusion Software," For more information, please visit www.pointsecure.com

OpenVMS Tech Tips

While writing applications, try to avoid using volatile variables. Volatile variables result in memory reference, while local variables use register.

—Guy Peleg, *OpenVMS* Ambassador

OpenVMS on the go!

We hope you had a chance to catch the *AlphaServer* Dream Machine road show as it traveled around North America in 2000! *OpenVMS* — and specifically *OpenVMS* Galaxy — was a big player in the road show. *OpenVMS* and *OpenVMS* Galaxy will continue to play a big role in the following upcoming events.

Technical Update Days:

18-20 April 2001
Dallas, Texas
For more information, visit dfwcug.org

15-17 May 2001
London, UK

21 May 2001
Zurich, Switzerland

For additional information about these and other *OpenVMS* events, visit www.openvms.compaq.com/events/externalcalendarbydate.html

Rock solid Reliable Transaction Router (RTR)

Compaq Reliable Transaction Router (RTR) is software fault tolerant transactional messaging middleware used to implement large, distributed applications using client/server technology.

Many of our largest customers around the world are running their businesses with proven RTR technology. They use RTR for global e-business transactions and data integrity in stock exchanges, financial services organizations, and railway reservation systems.

Now licensed as part of *OpenVMS*

RTR is an important part of Compaq's enterprise computing product offerings and e-business strategy. With the announcement of RTR Version 4.0, RTR for *OpenVMS* is no longer licensed as a separate product, but licensed

as part of the *OpenVMS* operating system. RTR software support services will continue to be sold separately and will not be part of operating system services.

RTR v4.0 is now available for the following platforms: *OpenVMS* (*Alpha*™ and *VAX*), *Tru64* UNIX, Sun Solaris, Windows 2000, Windows NT, Windows 95, Windows 98 and Windows ME. RTR v4.0 also includes support for the *AlphaServer* GS Series.

For more information, visit www.compaq.com/rtr

Terry Shannon on *OpenVMS*

OpenVMS: Gartner likes it, too!

© 2001 by Terry C. Shannon

As the late author and poet Richard Brautigan once wrote, "the biggest surprise of all is realizing that nothing surprises you anymore." And so it is with market researcher Gartner Group's new outlook on the best server OS on the planet.

Students of Digital and Compaq history will realize that Gartner has long maintained — diplomatically speaking — a tepid stance toward *OpenVMS* and the platform it runs on. More than once (Probability Factor .0.9), the Gartner crew has written off *Alpha* and *OpenVMS*, declaring the operating environment a Risky Enterprise Scheme.

No longer. In an online review recently posted on CNET.com, Gartner takes a surprisingly upbeat view of *OpenVMS* and its long-term viability. Calling *OpenVMS* an "Excellent Non-UNIX Enterprise Operating System," Gartner cites high availability, flexibility, industry-leading clustering, a 10M-strong user base, Windows integration, *AlphaServer* GS Series support, and the Galaxy software architecture as key OS attributes. No less important in Gartner's opinion — not to mention SKC's — is the fact that Compaq is finally articulating its commitment to maintain and extend *OpenVMS* for the long haul. Gartner now believes customers should have "a reasonable degree of comfort that *OpenVMS* will remain viable for five years or more."

Gartner opined that Compaq may have too many OSes to juggle, and noted that the company "needs to focus and simplify on proven areas." And in this regard, "*Tru64* UNIX and *OpenVMS* are proven winners."

VAX — and *Alpha* — Populi

OpenVMS users are in virtually unanimous agreement. In an online operating system survey at CNET.com, *OpenVMS* has racked up more responses than any other OS listed. And the feedback is overwhelmingly positive: 96 percent of the 100 responses collected as of January 15, 2001 were favorable, and no responses were completely unfavorable. (Not surprisingly, pricing and apps availability were the two areas showing the most room for improvement.)

Rather than rehashing the opinions of the *OpenVMS* customers who voted in the poll, SKC suggests that you visit the following URL to see the results for yourself. And while you're there, why not weigh in with your own opinions and observations about *OpenVMS*?

http://enterprise.cnet.com/enterprise/0-9566-701-1751615.html?tag=st.it.9566-707-1751615.navbtp.9566-701-1751615-235073

Terry C. Shannon, consultant and publisher of Shannon Knows Compaq (SKC), has more than 25 years experience in the IT industry as an OpenVMS system manager, programmer, analyst, journalist, and consultant. Mr. Shannon's opinions are his own and do not necessarily reflect the opinion of Compaq Computer Corporation. — Editor

Did You Know?

If you ride the railways in Israel, you're a user of *OpenVMS*.

MAILbus 400 v3.0 delivers significant performance improvements

The latest release of MAILbus 400 delivers a significant number of customer-requested enhancements — focused on improved performance, security and message handling. These enhancements keep MAILbus 400 on *OpenVMS AlphaServer* systems at the forefront of X.400 messaging capabilities.

With previous versions, there was a limit on message throughput, regardless of the number of CPUs installed in any given system. We have significantly raised this limit by optimizing the implementation of the XAPI code. For messages up to 10KB in size, performance improvement approaches 300 percent on heavily loaded systems. There are also marked improvements at the 10MB message/attachment size and beyond.

Other enhancements include:

> Modifications to Distribution List management and access control, ensuring that only authorized users can access system-wide distribution lists

> Ability to postpone message delivery based on size of the message, ensuring that large messages with perhaps large distribution lists do not clog the system in peak times

> Support of the DEC 'C' compiler

> System Traffic Analyzer developed for a major customer is now included in the standard kit

> Support for up to 256 parallel agent connections

> Unique name generation for File Transfer Body Part (FTBP) attachments, while upgrading body parts from BP15 to FTBP

This version is supported on *OpenVMS* V7.1-2 and above. For further information contact dave.holt@compaq.com

Enterprise Modular Array 16000 High Density RAID solution now available

Compaq now offers the highest per-cabinet density storage in the industry. This solution is also highly available, based on standard *StorageWorks™* products, and is a perfect external storage match for *AlphaServer* GS Series systems.

To meet the rapidly growing demand for high-density RAID solutions, Compaq CustomSystems & Solutions designed the Enterprise Modular Array 16000 (EMA 16000) High Density RAID solution as an extension to the *StorageWorks* Modular Series EMA 12000 Storage Array. It is the perfect solution for organizations with large storage requirements, rapidly growing storage requirements, or a need to conserve space. This solution is particularly well suited for e-commerce organizations such as ASPs and ISPs.

Enhance all *AlphaServer* sales, especially *AlphaServer* GS Series!

The EMA 16000 system is ideal for entry into competitive environments with Sun, IBM, HP, or SGI servers. This system offers extremely high-density storage in an extremely small footprint, and has no single point of failure. It currently stores up to 8.7 terabytes of data, and will store up to 17.4 terabytes within the next six months, and then 34.8 terabytes in 15 months or less.

It accommodates standard *StorageWorks* components, such as the Model 4200 and 4300 storage shelves, and will accommodate future modular shelves and offerings as long as they conform to the 19-inch EIA Standard (RETMA) form factor.

OpenVMS Tech Tips

As of v.7.2, OpenVMS *ships with built-in Remote Procedure Call (RPC) capabilities, which are interoperable with Microsoft and DCE RPC.*

— Guy Peleg, *OpenVMS* Ambassador

Cerner deploys systems at its HQ, sells 11 *AlphaServer* GS systems

Cerner Corporation, the largest *AlphaServer* VAR of *OpenVMS* and a major leader in the healthcare market, has taken the lead in deploying the processing power and flexibility of the *AlphaServer* GS platform. Cerner has installed two *AlphaServer* GS Series systems running *OpenVMS* in its greater Kansas City facilities — one to support its Application Service Provider (ASP) business and a second in its performance laboratory.

To date, Cerner has sold 11 *AlphaServer* GS systems to five customers, recommending the new systems for their power, scalability, high availability, and unmatched partitioning — all of which give its customers the ability to meet their most demanding business needs. Cerner also anticipates continued enthusiasm and uptake by its customers in 2001.

Compaq's new *AlphaServer* GS series systems give these customers even greater control over their costs by letting them efficiently allocate IT resources and enhance the cost effectiveness of their processing power and storage.

Kent Scheuler, Technical Practice Director of Cerner's Production engineering lab, says "The platform change was transparent to Cerner's applications. Continuing the *Alpha* architecture in the GS line was an excellent decision," he said, "and Compaq implemented it well."

For the complete story, visit www.openvms.compaq.com/openvms/success-stories.html then select Cerner.

Did You Know?

All Short Message Service (SMS) messages sent in Australia pass through *OpenVMS* systems. SMS is the technology for sending short text messages to and from mobile phones.

Free high performance DBMS for *OpenVMS*

By Stefan Eck, Marketing Manager, Mimer International

A free developer version of Mimer SQL, the Swedish relational database management system (RDBMS), is available for *OpenVMS Alpha*.

A complete version of Mimer SQL 8.2 is now available for download from Upright Database Technology's Web site (www.mimer.com), free of charge. This provides *OpenVMS* programmers with a high performance RDBMS, with support for 10 concurrent users, which can be used for development, test and evaluation.

The developer version of Mimer SQL for *OpenVMS* includes JDBC and ODBC drivers, as well as an embedded SQL pre-processor. The Mimer SQL server is client/server enabled, making it possible to connect from Windows, UNIX and *OpenVMS* clients. It is ideal for open environments where interoperability is important.

Mimer SQL is a high performance database engine, providing an ideal data management solution across the full range of computing environments — from a workstation to enterprise client/server configurations supporting thousands of users. Through the combination of a unique transaction management model, without any locking, and the use of DECThreads, it offers a unique level of scalability, including SMP support.

Designed with an "install-and-forget it" concept, Mimer SQL is a comprehensive, easy-to-use database management system with support for stored procedures and triggers according to the ISO standard.

Since the first release of Mimer for *VMS™* over 20 years ago, a large number of organizations depend on their Mimer-based solutions, including Volvo, Swedish Telecom and the National Blood Service (UK).

For more information, please visit www.mimer.com or send a request to info@mimer.com.

OpenVMS Internet Portal

If you haven't visited the *OpenVMS* Portal lately, you'll be happy to see that we've added some cool stuff to our eStore! And we'll be adding more items all the time! Need a backpack? Travel clock? 3-ring folio organizer? Find them all here, beautifully embossed or engraved with the *OpenVMS* name.

Stop by often to see what new items are offered! Visit www.esoftwarefactory.com/acb/showprod.cfm?&DID=30&CATID=194&ObjectGroup_ID=833

Customer Profile: Bank Austria

Headquartered in Vienna, Bank Austria is the largest banking group in Austria, and a major player in the international treasury business. Always on the move, Bank Austria's treasury system load increases 200%-300% annually — and business developments can spike system demand by as much as 2500% in a single year.

Bank Austria needed to remain predictable and operational 24 x 7 – even as they moved toward replacing their core of high-end servers. They needed servers that were 100% reliable, secure, easy to scale, and performed beyond established benchmarks. Their choice? Compaq *AlphaServer* GS systems.

What happened when the servers hit the trading floor?

"We were powered up and on-line within minutes, and due to *OpenVMS* clusters, the go-live of the new servers caused no downtime for our users," said Dietlinde Kellner, IT Manager at Bank Austria. "The Test Lab was critical to the success of our *AlphaServer* GS systems implementation. And with the *OpenVMS* Engineering Team across the hall, always available for questions and consultation, we ended up with a complete system absolutely optimized for our environment," said Kellner.

"*OpenVMS* is the operating system to use when you need reliability. That's a given. But we also live on performance, as we have one big application that must serve many hundreds of users equally well. In *OpenVMS*, we get it all," said Kellner.

For the complete story, visit www.openvms.compaq.com/openvms/success-stories.html then select Bank Austria.

OpenVMS Educational License Program

The new *OpenVMS* Educational License program was created in response to customer requests that we make *OpenVMS* available to educational institutions at no cost. In the first two months of being available, almost 40 customers worldwide have already signed up. All the existing educational programs remain in place, such as the campus-wide Software License Grant (CSLG) program (in the U.S. and Canada), the Campus Program (in Europe), and educational discounts for hardware.

Key program benefits:

Program Feature	CSLG	*OpenVMS* Edu. Prog.
All educational institutions eligible	U.S. and Canada	Worldwide
Students, faculty & adm can use PAKs	X	X
No commercial use of PAKs allowed	X	X
Annual registration required	Via fax or mail	Via Web, every August
Annual membership fee	X	
PAK distribution	Via CD	Via Web
OpenVMS Base O/S License included		X
OpenVMS unlimited users included	X	
OpenVMS layered products included	X	X

> Enables free use of *OpenVMS* and layered products for students, administration and faculty

> Keeps *VAX* and *Alpha* systems in academic settings useful for a longer time period at no additional cost

> Allows schools to use and continue to teach *OpenVMS* into the future

Several questions have come up about the positioning of this program and CSLG. CSLG is a successful educational program that has existed for some time and contains a wide range of products for both the *OpenVMS* and *Tru64* UNIX platforms. The following table shows the highlights for *OpenVMS* with respect to both programs:

Binary distribution of the software contained in both programs is available separately. Discounted software service offerings from the Education Software Library (ESL) are also available separately for the CSLG program. For information on the *OpenVMS* Educational License Program, visit www.compaq.com/openvms

For information on CSLG, ESL and other special programs for the educational market, visit www.compaq.com/education/higher-ed/alphaprograms

CODA bridges G.A.P. for Compaq *OpenVMS* support

CODA plc has appointed IT services group G.A.P. as the sole U.K. service delivery partner for Compaq *OpenVMS* systems running CODA-Financials. G.A.P. will manage and support the growing number of implementations of CODA-Financials on the *OpenVMS* platform. This service will complement CODA's own in-house support organization.

The partnership is a critical step forward in the development of long-term support services for CODA-Financials since CODA was acquired by Science Systems in April 2000. Compaq *OpenVMS*-based CODA installations continue to provide one of the most business efficient accounting systems for 300 companies worldwide and 180 companies in the United Kingdom.

CODA-Financials provides best-of-breed financial accounting with the flexibility to easily reflect changing corporate structures. Key benefits include low cost of ownership, rapid implementation, on-going support and development on all platforms, and proven lifespan.

Nick Leake, Controller of Information Systems at Carlton Television, comments "CODA running on the *OpenVMS* platform has been an extremely reliable and cost effective mid-range system. We are committed to its continued use within the company and welcome the ongoing commitment to *OpenVMS* displayed by both CODA and G.A.P."

For more information, contact www.gap.co.uk

Tips from the *OpenVMS* Performance Expertise Center

Those who remember the past can profit from it

For understanding airplane crashes, a black box is an indispensable tool. Despite the name, it isn't mysterious — it's simply a timeline tracking tool, regularly recording time, airspeed, altitude, location, and other essentials. These metrics help characterize everything important as the values change from second to second during flight. Data reduction tools then turn timeline data into formats for further analysis. When studied intensely, the cause of crashes can often be determined from this data. The net result: improvements increasing future air safety.

This same holds true for understanding computer mishaps.

Timelines are very helpful when managing the performance of complex *OpenVMS* systems. Introduction of the *AlphaServer* GS160 has led to substantial increases in the complexity of some *OpenVMS* workloads. To deal with growing complexity, *OpenVMS* Engineering developed a prototype known as T4 (Tabular Timeline Tracking Tool). T4 uses MONITOR and DCL and functions as an *OpenVMS* black box, which you can customize to meet your specific requirements. T4 includes data capture and reduction and allows you to select just the precise set of statistics you need. T4 creates CSV (Comma-Separated Value) files suitable for spreadsheets, for merging with other timeline data, and for further analysis.

We have used T4 to advantage in intense trial situations with large *OpenVMS* systems where delivering improved performance was of paramount concern. T4 automation

helped ensure capture of all important data every day. Over time, an accessible history of performance built up adding substantial value.

Our experience with T4 has been positive. We believe it is another example of the principle that those who remember the past can profit from it.

Breaking the tyranny of average statistics

We learned long ago that averages can be deceiving. The most important *OpenVMS* performance statistics vary substantially over time. This is true for system statistics (CPU busy), for database statistics (database calls), and for user statistics for throughput or response. Average values don't let you see your busiest periods. Averages don't show cause and effect relationships. And averages can lead you to miscalculate the impact of changes you've made.

Coordinated timelines of key statistics are the proven solution that helps you break the tyranny of average statistics.

Earlier, we discussed the *OpenVMS* tool T4 (Tabular Timeline Tracking Tool). T4 creates CSV (Comma-Separated Value) timelines of system statistics. These timelines have already proven indispensable to some *OpenVMS* systems with rapidly growing workloads.

A similar approach is possible for any vital performance data. For example, while working jointly with Oracle to help one of our customers handle dramatic increases in workload, Oracle Support developed a prototype (currently referred to as OTLT – Oracle Time Line Tool) that captures timeline data on key Oracle statistics and saves them in a CSV file. Combining timeline data from T4 and from OTLT, we were able to discover a series of actions that helped substantially boost performance. At each step along the way, the composite timeline data helped to assure us that we were indeed going in the right direction.

The statistics from OTLT are a subset of the ones that you can examine using Oracle's BSTAT/ESTAT utilities. As is the case with T4, OTLT can be customized to capture exactly the subset of statistics that fits the individual customer circumstance.

Now available! Compaq *OpenVMS* Galaxy on the new *AlphaServer* GS series CD

This Windows-based CD includes demonstrations and video presentations on the *AlphaServer* GS series hardware, hard and soft partitioning, configuring *OpenVMS* Galaxy, CPU Hot Swap, and *OpenVMS* Galaxy documentation. You can use the CD for training or just getting familiar with the *AlphaServer* GS Series and partitioning.

Order your CD at no charge through the *OpenVMS* eSTORE, www.compaq.com/openvms
Project Number 13J3-1000A-WWEN

For more information on *OpenVMS* Galaxy, visit www.openvms.compaq.com/availability/GALAXY.HTML

Customers respond to the *AlphaServer* GS Series…

"The reliability of OpenVMS *and the AlphaServer* GS Series *allow us to measure uptime in months and years instead of days. It is truly a rare event when we have a service failure. The scalability has completely met our shipment growth from 5,000 to 22,000 shipments per day. We are always ahead of the computer response curve."*

— Dave S. Robinson, Jr., Vice President of MIS
Southeastern Freight Lines, Inc.

Just released: ActiveBatch v3 Enterprise Job Scheduling and Management System

By Jim Rizzolo, Advanced Systems Concepts, Inc.

Today's computing environments typically contain a mix of operating environments including Windows 2000/NT, *OpenVMS*, *Tru64* UNIX, Solaris, and others. As a result many IT professionals are turning to ActiveBatch as an enterprise automation solution to centralize job management and scheduling to assist them in achieving an overall lower cost of ownership.

"Version 3 offers enormous scheduling flexibility," said Jim Manias, of Advanced System Concepts, "If you can think it...we can schedule it, whether it's a job that you want to run every other Tuesday, the last Saturday of the year or to make specific events actionable using Windows Management Interface (WMI)."

OpenVMS jobs can now be integrated with Windows 2000/NT and UNIX jobs, using the new *OpenVMS* Execution Agent so that all jobs can be managed through a single console. As a result, job dependencies are implemented on a cross platform basis for maximum flexibility.

ActiveBatch's scalable architecture allows systems to be easily added to meet increasing demand and manage workloads. The Generic Queuing capabilities automatically select the system best suited to execute a job, based upon the selection of one of three algorithms, sequential, round robin or workload balancing.

ActiveBatch implements several client interfaces, at no additional charge, so each user has the appropriate interface. Clients include a GUI for flexibility and speed, a command line for administrative users, support of the MMC Snap-in for managing system administration information, and a COM based interface suited for developers and scriptwriters. Using COM, object oriented programming languages, such as VBScript, Java, etc. can be utilized to build ASP or Web-enabled applications.

For more information, visit www.activebatch.com

PointSecure, Inc. secures space in the *OpenVMS* market

By Michael Umansky, Vice President, PointSecure Inc.

A major challenge facing *OpenVMS* administrators is finding security and compliance tools for their networks. To fill this need, PointSecure, Inc. has recently acquired the popular System Detective products from Network Catalyst. With the insurgence of e-business, more information, applications and transactions are exposed to greater risk from hackers, disgruntled employees and misuse or abuse. PointSecure products provide an additional layer of security to *OpenVMS* systems and secure mission critical data at the core of the system.

"Through the past ten years, these products have won many awards for their ability to monitor users, detect intruders, and secure unattended terminals," says Ted Hulick, Chief Architect of the System Detective products and PointSecure board member. "I am excited to provide my technical expertise to the company and believe in the strength of these products."

PointSecure feels strongly that because of its reliability and stability, *OpenVMS* will become a leader in e-business architecture. "As *OpenVMS* systems have opened up to the outside world and are being expanded further with the metamorphosis to e-business, the importance of securing systems-critical data and applications has increased. PointSecure products are positioned to fill this need and provide the necessary technology to secure everyone's *OpenVMS* systems," says Rod Endo, Founder and CEO of PointSecure. "We are striving to provide the highest quality support and service to our current and future customers."

Located in Houston, Texas, PointSecure, Inc. is a distributor and developer of point security products. For further information, contact PointSecure at info@pointsecure.com or call 713-868-1222.

OpenVMS Tech Tips

If your Alpha *system has more than one CPU, make sure SYSGEN parameter SMP_SPINWAIT is set to 300000*

—Guy Peleg, *OpenVMS* Ambassador

Compaq CarePaq Services protect businesses from day one

Compaq stands behind its products with a strong warranty. But a warranty is meant to protect against product defects, not to safeguard a business. With Compaq *CarePaq*℠, you can easily select the right services to guard against downtime that can sap productivity and impact revenues.

CarePaq services are convenient service packages designed to give you just the level of service you need for each type of product, including:

> Standard options that include warranty extensions, installation, hardware services, and software support

> Integrated hardware and software service solutions that help ensure top performance and availability in today's demanding business environment

Easy to buy, easy to use

You can purchase *CarePaq* service from your Compaq reseller or directly from Compaq at the time you buy your system. Your *CarePaq* kit contains registration instructions, terms and conditions, a service description, a user's guide, and a unique certificate number to activate service — everything you need to get started right away.

CarePaq services make it easy to select the level of service and hours of coverage needed to protect your business. Virtually all Compaq products are covered.

Our experienced, certified technical engineers offer a single point of contact for multi-technology problem resolution. With 40,000 service professionals — plus a vast network of partners — Compaq delivers *CarePaq* services wherever your company does business around the globe.

Find the service you need at www.compaq.com/services/carepaq, or contact your local Compaq reseller or Compaq representative.

Total e-business solutions for the enterprise from Ericom Software

By Michael Barnett, Software Marketing Manager, Ericom Software

Ericom Software, the creators of the PowerTerm Series of host-access products, has an on going four-year OEM partnership with Compaq. A member of the PowerTerm Series is bundled with Compaq/Digital Pathworks32. PowerTerm has consistently provided simple, reliable and cost effective host access for hundreds of thousands of satisfied *OpenVMS* users the world over.

Now, Ericom Software's New Generation PowerTerm WebConnect and PowerTerm Host Publisher can help to add longevity to your *OpenVMS* Systems.

PowerTerm Host Publisher

PowerTerm Host Publisher is Ericom's e-business solution that speeds and simplifies Web enabling of legacy systems into B2B and B2C process transactions. By using PowerTerm Host Publisher, organizations can benefit from having a Web presence while preserving the stability, reliability and investments of time and money on their existing computing systems.

PowerTerm WebConnect

PowerTerm WebConnect is Ericom Software's secure, browser-based, Web-to-host connectivity solution with both fat and thin client configurations. It addresses the need for high-level security, centralized management, cross-platform compatibility and increased flexibility in host access. This software solution enables end-users to increase performance and productivity thereby enhancing an organization's return on investment. PowerTerm WebConnect's centralized management enables single point (zero-client) installation, reducing the organization's total cost of ownership (TCO).

For more information, visit hostpub@ericom.com

Verizon Information Services upgrades *OpenVMS VAX* systems

By implementing a server consolidation project, Verizon Information Services experienced positive benefits and exceeded expectations when upgrading its older *VAX* systems to newer *AlphaServer* systems running *OpenVMS*.

Verizon Information Services is a unit of Verizon Communications (NYSE:VZ), which was formed through the merger of Bell Atlantic and GTE Corporation. It is the world's largest publisher of print and electronic directory information. With approximately 20% of the worldwide market for directory advertising, Verizon provides sales, publishing and other related services for nearly 2,500 directory titles in 47 states and the District of Columbia, and 18 countries outside of the U.S.

The goal of Verizon Information Services IT staff is to meet or exceed the expectations of their internal clients, and to do so they rely on Compaq *AlphaServer* systems running the Compaq *OpenVMS* operating system. For many years their applications have been running on *OpenVMS*-based *VAX* systems. In order to get the horsepower and scalability they needed, they replaced their production cluster of five *VAX* 7840 systems with three *AlphaServer* GS140 systems with four CPUs each. This upgrade was also part of a server consolidation project being implemented at their site. Verizon also uses Compaq's *StorageWorks™* RAID systems, and has just implemented a SAN.

According to Scott Snadow, senior advisory systems manager at Verizon Information Services, "Our move from *VAX* to *AlphaServer* systems was much easier than we anticipated. Between increased performance and server consolidation, the payback has been absolutely tremendous."

Quantifying the benefits of server consolidation, Verizon Information Services is now saving approximately 40% in software costs, 25% in maintenance costs and is using 20% less floor space.

For the complete story, visit www.openvms.compaq.com/openvms/success-stories.html then select Verizon Information Services.

Tattoo PW Brings WYSIWYG capabilities to *OpenVMS* systems

By Charles DeGruchy, Integrated Software Design

Integrated Software Design (ISD), the leader in enterprise printing and document management software, has announced the availability of Tattoo PW. Tattoo PW can be used to design and print a vast array of documents including forms, invoices, purchase orders, manufacturing tickets, documents, letters, and shipping papers.

Tattoo PW gives users of *OpenVMS* on *Alpha* systems a full-featured WYSIWYG label and form design interface — including the ability to add information from enterprise databases and the capability to print bar codes on multiple types and brands of printers.

Tattoo PW lets companies standardize label and form design throughout their organization and supports printing from *OpenVMS*, UNIX, and Windows NT on most laser, dot matrix, and thermal transfer printers. Tattoo PW combines the features of two powerful ISD software products into a total solution for *Alpha* systems. Tattoo ID provides flexible Windows desktop design features and Print Wheel provides powerful translation capabilities to allow users to print various size characters, fonts, lines, boxes, pictures, and bar codes through their *OpenVMS* systems.

Users can include information on their labels or forms that comes from enterprise resource planning systems such as SAP, BAAN, Oracle ERP, JDE, and many more. Tattoo PW lets users print every popular bar code type, such as Code 39, Code 128, Codabar, Interleaved 2 of 5, Straight 2 of 5, UPC, EAN, MSI and POSTNET — without any additional hardware or SIMMs.

Integrated Software Design is the leading supplier of enterprise-wide printing, tracking and business process automation solutions to over 4500 U.S. and international businesses. ISD's software is installed in over 50% of Fortune 500 companies.

For more information, visit www.isdweb.com/products/tattoo/ or e-mail info@isdweb.com

Digital India's services keep *OpenVMS* customers smiling!

By Shobha Benakatti, Program Manager, Digital India

Based in Bangalore, India, Digital India is a leading software services company helping *OpenVMS* customers world-wide. This majority-owned subsidary of Compaq Computer Corporation has over 1000 trained software professionals and offers a comprehensive portfolio of software services.

Digital India has been offering its services to the *OpenVMS* Engineering group and the IM groups of Compaq since 1995. At present, there are over 200 engineers with skills ranging from applications to system software. Services include extended life cycle support, product and application enhancements, problem management, 24x7 support, customer interaction, technical support, migration of products and applications across platforms, and performance tuning of products and applications on *OpenVMS*.

Using its extensive knowledge of *OpenVMS* internals and system programming, Digital India fully manages some of Compaq's *OpenVMS* products including MAILbus, Storage Management Software, DEC/EDI, DECforms, Teamlinks, RTR, PATHWORKS 16, PATHWORKS 32, PATHWORKS Advanced server, Apache, DCE, Argus, ACMSXP and Oracle to *OpenVMS* porting.

Digital India's extensive expertise in *OpenVMS*, strong processes, skills in other platforms and Internet technologies make it an ideal partner for *OpenVMS* customers worldwide seeking services in application management, integration, migration, porting, support and help desks.

For more information, visit
www.digitalindiasw.com/OVMS

compaq.com

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