OpenVMS Now

Reinforcing Compaq's Commitment to OpenVMS

OpenVMS development roadmap

New AlphaServer systems launched
Automatic Y2K testing
New OpenVMS workstation
Update from Oracle
VAX end of production

COMPAQ
Better answers
Welcome
to the May/June 1999 issue of OpenVMS Now, the newsletter for OpenVMS users throughout Europe, Middle East and Africa.

This is an exciting time for users of the Compaq OpenVMS operating system and this edition tells you what you can expect. NonStop® eBusiness delivers continuous computing in a rapidly evolving Internet-based economy, while the new range of AlphaServer systems provides the ideal engines to power business success in this space. The OpenVMS roadmap shows you how we plan to develop the platform in the coming years.

It's a historic time for us as, after nearly 22 years of production, we announce our plans to discontinue manufacturing VAX systems. Of course, we will continue support for VAX systems for many years to come and, for those of you who still use VAX systems, we assure you of our strong support now, and when you choose to upgrade to Alpha.

NEW

NonStop® eBusiness
strategy will web-enable OpenVMS enterprise customers

Compaq aims to capture the lead in electronic commerce.

Compaq has unveiled a new broad-based strategy to ‘web-enable’ its enterprise customers, from small and medium-sized businesses to the largest global accounts.

The core initiative, called NonStop® eBusiness, was announced in April. It is central to Compaq's goal to be the Internet computing leader and is designed to deliver continuous mission-critical computing to customers in a rapidly evolving Internet-based economy.

Compaq is focusing on this strategy because customers' ability to leverage the Internet represents one of the most important challenges for business today.

Compaq believes that the Internet will become the dominant means of doing business worldwide. To succeed in this Internet Age, businesses must adapt to a new paradigm of speed, global competitiveness and e-commerce where continuous connections to customers, partners, suppliers and employees are absolutely essential – and where your competitors are just a click away.

The strategy will deliver the highest levels of continuous commerce through service availability and responsiveness to customers. It features solutions, services, products and technology that enable businesses to compete effectively in a 24-hour-a-day, seven-day-a-week marketplace. In this environment, enterprises need their business operations to be continuously available.

Compaq's mission is to enable customers to achieve competitive advantage by delivering robust e-commerce solutions, more affordably than any other computing company.

Under NonStop® eBusiness, Compaq will deliver products, services and solutions that support continuous business operations, assure the integrity of data, provide the scalability needed to support uninterrupted growth and ensure advanced management capabilities.

Compaq's offerings include all of the hardware, software and services necessary to meet customers' eBusiness needs for knowledge management, customer relationship management and global supply chain demands.

The term NonStop® applies to a wide range of solutions, including those powered by Alpha- and Intel-based systems and by operating systems such as OpenVMS, Tru64 UNIX, NSL and Windows NT. Compaq Services has also aligned its professional practices to deliver planning, design, implementation and management services for NonStop® eBusiness.

Compaq's 27,000 service and support professionals around the world have successfully completed more than 20,000 enterprise network projects and provided Internet solutions for more than 1,000 enterprises. The services group currently manages the infrastructure for Internet service providers who support more than 10 million subscribers.
Compaq unveils aggressive OpenVMS strategy and multiyear roadmap

Compaq has announced its long-term strategic roadmap for continued OpenVMS development and support. It delivers a clear commitment to millions of users around the world.

The roadmap is designed to provide solutions to the growing needs for system resource flexibility, server consolidation, and ease of managing computer environments. The roadmap also extends Compaq's successful Affinity programme by significantly extending seamless integration of OpenVMS and Windows NT.

Order a free copy of the roadmap by ticking the relevant box on the enclosed reply-paid card.

"OpenVMS and its significant installed base continues to play a critical role in Compaq's strategy to achieve market leadership in this area. With today's announcement we are delivering solid proof that OpenVMS AlphaServers will remain a key component of Compaq's solutions for unmatched mission-critical computing for the next five years and beyond."  
--- John T Rose, Compaq Senior Vice President and Group General Manager, Enterprise Computing Group

"Customers continue to look for clear indications that Compaq is listening to what its users have to say. Today's unveiling of a compelling multiyear roadmap for OpenVMS will clearly bolster the confidence of OpenVMS AlphaServer customers, and ensure its stronghold as the premier server platform for mission critical applications."  
--- Terry Shannon, IT industry consultant and publisher of Shannon Knows Compaq

Compaq's investment strategy for OpenVMS is poised to address new market requirements for high availability and integration with Windows NT. Collectively, these investments will extend the commercial strength of OpenVMS, and continue to deliver solid, robust solutions to key industries in partnership with our key ISVs and VARS.”  
--- Richard Marcello, Compaq Vice President, OpenVMS Group

OpenVMS V7.2 builds on success

The recent volume shipment of OpenVMS V7.2, which includes the award-winning Galaxy software suite, has been enthusiastically received. OpenVMS V7.2 features breakthrough performance and flexibility for large-scale SMP systems, enhanced Internet readiness, seamless integration between OpenVMS and Windows NT, and ongoing improvements in system management, performance, reliability, and availability.

→ There are now more than 450,000 OpenVMS systems installed.
→ With over ten million users, OpenVMS enjoys market leadership position in several key industries where the highest levels of availability are essential.
→ OpenVMS is the number one rated operating system in the healthcare market, and has a dominant share of the world's lottery market.
→ More than 90 per cent of the world's CPU chips are manufactured on production lines controlled by OpenVMS.
→ More than 50 per cent of the world's cellular phone billing systems run OpenVMS.
→ Ninety-five per cent of the world's top financial exchanges run on Compaq OpenVMS and Tandem systems.

For more information tick the relevant box on the enclosed reply-paid card.
Three new AlphaServer systems

The announcements of AlphaServers DS10, DS20 and ES40 now complete the family of next generation, Alpha EV6-based systems.

The startling performance of the EV6 Alpha chip and a new switch-based system design combine to give the world’s fastest single-CPU, dual-CPU and quad-CPU systems.

The switched system architecture gives an incredibly high CPU to memory bandwidth. Apart from the impact on performance, this design allows multiple future CPU upgrades without compromising the system balance.

The highly competitive pricing makes these superb systems extremely affordable. You will be amazed at the low price of the entry-level DS10. The DS20 gives entry-level pricing, together with the flexibility of adding a second CPU. And the ES40 gives all – performance, upgradability to 4 CPUs and, for the first time, a mid-range system with the same software tier (pricing) as the workgroup servers.

<table>
<thead>
<tr>
<th>AlphaServer DS10</th>
<th>AlphaServer DS20</th>
<th>AlphaServer ES40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Processors</strong></td>
<td>1</td>
<td>Up to 2</td>
</tr>
<tr>
<td><strong>CPU/Clock Speed</strong></td>
<td>21264/4666 MHz</td>
<td>21264/5000 MHz</td>
</tr>
<tr>
<td><strong>SPECint95</strong></td>
<td>24.6</td>
<td>27.7</td>
</tr>
<tr>
<td><strong>SPECfp95 1 CPU</strong></td>
<td>47.9</td>
<td>58.7</td>
</tr>
<tr>
<td><strong>SPECint_rate95</strong></td>
<td>222</td>
<td>494 (2 CPU)</td>
</tr>
<tr>
<td><strong>SPECfp_rate95</strong></td>
<td>431</td>
<td>947 (2 CPU)</td>
</tr>
<tr>
<td><strong>LINPACK 1000 x 1000</strong></td>
<td>–</td>
<td>1.426 (2 CPU)</td>
</tr>
<tr>
<td><strong>Max. Memory</strong></td>
<td>2 GB</td>
<td>4 GB</td>
</tr>
<tr>
<td><strong>Max. Disk</strong></td>
<td>27 GB</td>
<td>128 GB</td>
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<tr>
<td><strong>(in cabinet)</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>(external)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max. I/O Bandwidth</strong></td>
<td>over 5 TB</td>
<td>over 15 TB</td>
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<tr>
<td><strong>I/O Support</strong></td>
<td>250 MB/s</td>
<td>532 MB/s</td>
</tr>
<tr>
<td><strong>Enclosures</strong></td>
<td>Desktop, Rackmount</td>
<td>Pedestal, Rackmount</td>
</tr>
<tr>
<td><strong>Software tier</strong></td>
<td>Workgroup (E)</td>
<td>Workgroup (E)</td>
</tr>
</tbody>
</table>

The AlphaServer Advantage

- High-availability support with cluster solutions
- Enhanced manageability with Compaq ServerWORKS Manager bundled
- Advanced high-bandwidth expansion path for even more performance and reliability: optional SVA processors, single- and dual-channel Ultra Wide SCSI controllers, external RAID subsystems, and enhanced network adapter support

- Flexibility of operating system choices – OpenVMS, Tru64 UNIX, Linux or Windows NT
- Internet-energised software included (OpenVMS and Tru64 UNIX servers) so your server is Internet-ready
- Superior price/performance built on five years of proven 64-bit technology
- A server family that you can’t outgrow: ranging from entry-level DS10 to enterprise-class, 14-CPU, GS40

For more information on the new AlphaServer family, tick the relevant box on the enclosed reply-paid card.
Announcing the Compaq AlphaStation for VMS VS10

Compaq continues its commitment to Alpha/OpenVMS on the desktop

The AlphaStation for VMS is the first high-performance Alpha-powered 21264 workstation supporting the OpenVMS operating environment. It represents a new line of Compaq workstations developed specifically to support Compaq’s ongoing commitment to OpenVMS users.

- New generation 466 MHz Alpha 21264 processor
- Optimised to run OpenVMS, fully supported as an OpenVMS Cluster node
- State-of-the-art audio, and 2D and 3D graphics
- Supports industry standards such as 64-bit PCI, PCI RAID, Fast Ethernet, PCI Ultra2-Wide SCSI

For more information tick the relevant box on the enclosed reply-paid card.

OpenVMS application development couldn’t be easier!

Develop, edit, debug, build and tune applications – from your desktop PC!

Stop dreaming and start developing! The Compaq OpenVMS Enterprise Toolkit for Visual Studio gives you a single, intuitive development environment for creating OpenVMS, Windows NT and Tru64 UNIX applications – using the same familiar tools and techniques of Microsoft Visual Studio.

With the Compaq Enterprise Toolkit, there’s no need to hire and train new OpenVMS programmers. The Toolkit uses the same user interface, the same naming conventions, tools, and wizards as Visual Studio – all extended to support OpenVMS. Anyone familiar with Visual Studio can create applications once – on a local Windows NT desktop – and target them to OpenVMS, Windows NT, Windows 95, Tru64 UNIX – or all of them.

The result: you streamline development, reduce application maintenance costs, and ensure application consistency across multiple platforms.

The Compaq Enterprise Toolkit extends the capabilities of Visual Studio so you can develop either basic client/server applications or more complex distributed or Web applications. With just one set of tools, you can deliver applications for your entire enterprise.

Application Wizards for fast, easy project set-up

Setting up a project with the Compaq Enterprise Toolkit is simple. Application Wizards - just like those in Visual Studio - guide you step-by-step through the process of defining remote host access, specifying the file synchronisation policy for the project, copying files between Windows desktops and the OpenVMS host – everything.

Powerful development tools to streamline the build/edit cycle

Using the familiar Visual Studio interface, along with build functions provided by the Compaq Enterprise Toolkit, you can compile and incrementally build remote OpenVMS applications quickly and easily. It’s easy to manage software files regardless of the system you choose for development. The same PC tools work on all types of software files. File copying and conversion of file names and formats is completely automatic.

Online access to all documentation

You can access the full range of programming documentation for both the Windows and OpenVMS environment using InfoViewer – the powerful documentation browser in Visual Studio.

Graphical tool to speed debugging of remote OpenVMS applications

Debugging remote OpenVMS applications is as easy as debugging local Windows applications. Simply access the remote debugger from the Compaq Enterprise Toolkit toolbar and you can quickly locate run-time bugs in the source code of your OpenVMS system, right from your PC desktop.

Visual tuning tools to optimise application performance and resource utilisation

The Enterprise Toolkit provides several tools for performance and memory tuning of OpenVMS applications. Accessible directly from the toolbar, these tools let you monitor application processes, identify memory errors and performance problems, and tune an application for optimum performance. That way you can ensure that your applications make the most of available system resources.

For more information tick the relevant box on the enclosed reply-paid card.
VAX production finally ceases

Compaq guarantees long-term support for VAX series

After 22 years of production, Compaq has announced last order and ship dates for its VAX hardware products.

But VAX owners needn't worry! Compaq will continue to offer full and complete support for a minimum of five years. (Compaq still offers ongoing support for the Digital PDP-11 series, introduced in 1970!)

There is absolutely no need to move to a different platform, but advance notification makes it easier for you to plan ahead. And Compaq has some very attractive trade-in offers when moving to Alpha systems—see below.

Today, most customers are taking advantage of the outstanding performance and price/performance benefits of newer 64-bit Alpha systems and the continuing leadership enhancements to the OpenVMS Alpha operating system.

With the shift to newer technologies comes diminished demand for VAX systems and the announcement of last order and ship dates for the VAX hardware products, one of the most successful computers ever seen.

Continuous support for VAX and OpenVMS VAX

Compaq is committed to supporting VAX customers and appreciates that VAX servers and workstations are still critical to many businesses. Support will include a comprehensive and ongoing range of preventive, performance enhancement and migration services.

OpenVMS VAX will continue to be available through version 7.2 and backwards compatible to OpenVMS VAX version 5.5-2. Compaq will continue to issue patches and bug fixes. Compaq also offers Prior Version Support on older versions of OpenVMS and Mature Version Support for layered products.

Last order date for the VAX 7000 Model 800 and VAXStation 4000 Model 96 products and upgrades is 30 September 1999. Last ship date is 31 December 1999. Last order date for the VAX 4000 Model 108 and MicroVAX 3100 Models 88 and 98 will be 30 September 2000, with last ship date extending to 31 December 2000. Availability of all VAX products is limited to product in stock.

For more information on VAX products, roadmap and resources, please visit www.compaq.com/VAX.

From VAX to Alpha, from Alpha to Alpha, from an old storage system to a new one...

Tradein '99 – there's never been a better time to trade up to new technology!

Technology moves blindingly fast—and systems that were state of the art just a few years ago are now unable to cope and expensive to maintain. Compaq's Tradein '99 makes it easy—and remarkably inexpensive—to move up to the latest systems, storage and software.

In fact, given the low cost of ownership, price/performance, three-year warranties and unmatched reliability of new Compaq systems, upgrading could actually save you money!

How Tradein '99 works

Tradein '99 is designed to make it easy for your organisation to move up to the latest Compaq systems by trading in your old computers. We'll give you money for your current...

- Servers
- Workstations
- CPU boards—useful when you want to upgrade a system's speed without replacing the entire computer
- Selected memory boards

Up to 20% OFF — or even more!

Tradein '99 works on a 'like-for-like' basis: you trade in an old server for a new server, for example. Every quarter, Compaq publishes a table setting out the value of your old systems—so you know exactly how much money you can expect. In some cases, trade-in values can also be counted from the value of the new system being bought.

Trade in software, too

Compaq also offers special prices when you want better OpenVMS software. Your existing software licences can be:

- Upgraded — when you want to run an existing application on a much faster machine
- Migrated — when you want to run an existing application on a different operating system or hardware architecture

For more information tick the relevant box on the enclosed reply-paid card.
Oracle updates OpenVMS customers

Statement of Direction clarifies plans

Oracle recently (in April) issued a Statement of Direction for its products on the OpenVMS Alpha platform. This complements an earlier statement (in 1997) which announced an obsolescence programme, for its OpenVMS VAX customers, together with the decision to concentrate new development exclusively on Compaq’s highly acclaimed 64-bit AlphaServers.

The OpenVMS port remains one of Oracle’s top six platforms and Oracle is committed to providing continued ports of its core database and Internet technologies to OpenVMS.

The table opposite show the version of the major Oracle products on OpenVMS that are currently shipping.

<table>
<thead>
<tr>
<th>Product</th>
<th>Platform/Version</th>
<th>Minimum OpenVMS Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
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<tr>
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<td>VAX</td>
<td>10.7</td>
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<tr>
<td>CDE/Repository</td>
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<tr>
<td></td>
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<td>7.0</td>
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<tr>
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<tr>
<td>Developer/2000</td>
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<td></td>
<td>VAX</td>
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<tr>
<td></td>
<td>VAX</td>
<td>5.0.1</td>
</tr>
<tr>
<td>Expert for Oracle Server</td>
<td>Alpha</td>
<td>3.21</td>
</tr>
<tr>
<td></td>
<td>VAX</td>
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</tr>
<tr>
<td>Expert for Rdb</td>
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</tr>
<tr>
<td></td>
<td>VAX</td>
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</tr>
<tr>
<td>Rdb Web Agent</td>
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<td></td>
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<tr>
<td>Oracle8 Server</td>
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<tr>
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<td></td>
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<tr>
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<tr>
<td></td>
<td>VAX</td>
<td>3.0.0</td>
</tr>
</tbody>
</table>

For a copy of Oracle’s Statement of Direction for OpenVMS Alpha, tick the relevant box on the enclosed reply-paid card.

OpenVMS and Oracle update

Joint customer seminar series starts its European tour

Much has happened to OpenVMS during the last six months: the new version 7.2 started shipping; the revolutionary Galaxy implementation was launched; and the new five-year roadmap of OpenVMS development was announced. At the same time, Oracle has issued its Statement of Direction for OpenVMS Alpha.

Compaq and Oracle would like you to fully understand what this all means for your company, and how you can go forward with OpenVMS and Oracle products to meet the rapidly changing needs of today’s business environment.

A massive European seminar tour is about to begin with the help of Compaq reseller partners. Check with your local Compaq sales representative for when the tour is coming near you. At the time of going to press, the first seminars have already been scheduled:

28 June London UK
29 June Warrington UK
30 June Birmingham UK
1 July London UK
2 July Dublin Ireland

For more information tick the relevant box on the enclosed reply-paid card.

Your best time to move from VAX to Alpha – NOW!

With the announcements of new EV6-based AlphaServers and the end-of-production warning of VAX systems, there has never been a better time to move from VAX to Alpha.

But that is not all: we have made it even more compelling for you! With the help of the renewed TradeIn '99 programme, we have created a special offer for all VAX customers who want to move to Alpha.

The special programme, valid for a limited time only, includes the following advantages:

- Special trade-in credits for all VAX systems traded up to Alphas.
- Special trade-in values for many of the Compaq-based software traded up to Alphas.
- Special additional time period when the two systems can be run in parallel.

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Y2K Testing

Compaq offers comprehensive Year 2000 testing solution for OpenVMS

Most Y2K tools require qualified people to run them — and this can be expensive. Millennium Suite is designed so that non-technical users can perform many Y2K testing activities, freeing developers to spend more of their time analysing and fixing actual bugs.

- **CYRANO Millennium Test** is a powerful facility for automating regression and Y2K compliance tests for multiple future dates. This dramatically reduces the time and labour involved in testing and provides automated documentation of your testing process. Regression and Y2K compliance scripts can be created with no programming required, so it is ideal for non-technical users.

- **CYRANO Millennium Recorder** automatically captures and documents the execution of your Y2K compliance tests, for proving ‘due diligence’ and analysing problems found during testing. Test execution is captured in video recording files which can be archived and reviewed at any time. The result is indisputable test documentation with no additional effort. It also dramatically reduces the analyse/fix cycle for programs that fail and gives you the ability to analyse failures that cannot be reproduced. This utility alone is said to pay for itself in less than a week.

- **CYRANO VMS DateWarp** is an OpenVMS system clock simulator. This allows multiple testers to have their own system clock on the same physical machine, reducing requirements for dedicated test hardware and allowing testers to work independently, thereby improving productivity and reducing critical paths. It supports both VAX and Alpha processors; clock simulation at the process, job, username and group levels; and RMS file creation/modification time-stamps (supported on VAX systems only).

- **CYRANO DataAge** allows you to ‘age’ data in existing files or databases to any future timeframe. You can repeat the same processes in multiple timeframes and compare the results to ensure they are as expected.

### CASE STUDY

Automated testing reduced Y2K compliance testing time for $2 billion US company **AlliedSignal Polymers** by 50%, compared to earlier estimates. The company is on track to convert 3.5 million lines of code in eight months with a staff of 15, approximately eight less than would have been required for manual testing. The time savings came from the use of the CYRANO testing tool. The automated testing methodology has proven so effective that IT management plans to make it a permanent part of their application development cycle.

**AlliedSignal Polymers** needed to check for Y2K problems in its production and inventory control applications, mostly consisting of COBOL and FORTRAN programs on mid-range VAX and Alpha computers running OpenVMS and UNIX. The entire company relies on these systems. If they didn’t work, it would become difficult or impossible to take orders, quote delivery dates, ship products or bill customers. The company also needed to prove that it had taken all reasonable precautions to avoid Y2K problems — from a legal standpoint, has exercised ‘due diligence’.

When the team estimated the duration of specific tasks it soon became clear that the testing process would not only occupy the main part of the compliance effort, but would require more manpower than was available. It would be impossible to even come close to meeting the schedule using existing manual testing procedures.

The automated testing methodology has dramatically reduced the time required for Y2K compliance. Rather than tying up operators and analysts in a repetitive manual process, the software automatically tests all aspects of compliance. Thanks to this vast improvement in productivity, the compliance effort is slightly ahead of schedule and right on budget.

The project team began looking for an automated testing tool that operated under both OpenVMS and UNIX. Finally, they located CYRANO Millennium Test.