

Welcome Back

After a short hiatus Tech Tidings is back with a new look; and the same great material!

January 2011

Issue 1 Volume 2

Virtual Alpha Update



Migration Specialties released an update! Take a look and contact them with questions!
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Blades Testimonial

See how TESSCO has wielded their blades while aiming for success!

Page 2

A Better Rightsizing Paradigm

An intuitive and intensely technical article brought to you by well known technical author Robert Gelzelter

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Golden Eggs Release

Matti Patari strikes again with another Golden Eggs release. Be sure you bring your basket so you can cache in on these bits of VMS treasure

Page ?

Ken Olsen's Legacy

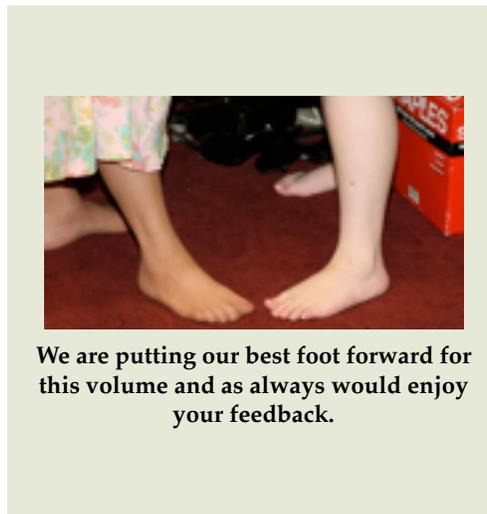
We are featuring a widely published article written by Tom Krazit. The original page can be found at http://news.cnet.com/8301-30684_3-20030941-265.html

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And We're Back!

Tech Tidings is back with a brand new layout! Don't worry, even though we've updated our look we are still packed with great content. To spice it up a bit though we would like to extend an invitation to all our readers. If you have any photography you would like to have published feel free to send it to us. You will get full credit for your pictures. Don't know what to submit? Never fear we will accept anything! Take a picture of whatever you want, from your company's product to your favorite bird. We will save it and publish it in one of our issues.

The Tech Tidings crew is putting our best foot forward and looking forward to bringing you the latest in VMS Updates, ads and information. If



We are putting our best foot forward for this volume and as always would enjoy your feedback.

you have any articles or information for us we want it! We had a great first year, we had excellent response and feedback, thank you so much. In case you are wondering about exactly how much we grew let us just say that Tech Tidings Volume 1 Issue 1 had 9 pages in it. While we didn't have an

issue every month we still grew massively, closing out the volume with issue 8 which contained 23 full pages of content; and that wasn't even our largest one!

Considering the response we have had Tech Tidings would like to set a new goal, to publish every month of 2011! In order to do this we request that all submissions be made by the 15th of each month. We look forward to seeing your contributions. Please email them to techtidings@yahoo.com

Now sit back, grab a cup of coffee or tea and enjoy the latest issue of Tech Tidings.

Warm Regards,

The Tech Tidings Team



TUDs in Asia Pacific and Japan

We are happy to announce the Technical update days in Australia and Singapore. These are planned in the last week of April. Please block your calendar and join us in these cities for our Technical update days. You will hear more in detail from us shortly on this. Our partners for this event are Software Concepts International and Nemonix. Visit them at:

www.sciinc.com
www.nemonixengineering.com

Code Blocks and Notes

NOTICE TO READERS:

Never suppose the information contained in any of the articles accessible at this link is indeed to be taken as a reality you can blindly rely upon. Blindly



relying upon is at your own risks. When seemingly proved with facts, read carefully their *** CAUTION *** paragraph. It contains the conditions under which the author

based his article. The author is strongly convinced that perfection does not exist and is a goal some people are willing to tend to, including the author. So never expect the information provided by the author to be perfect.

CONSEQUENCE FOR THE READER:

Instead of hurrying to understand the algorithm of the code the author provides or lazily do cut'n paste with no verification effort, always double check using the author's provided code that you can really trust the information he provides.

COMMITMENT FROM THE AUTHOR:

What you can find in these articles is what the author thought best to document and to share with readers at a given time and at that time's best knowledge from the author.

WHAT SOFTWARE SERVICES COMPANIES SHOULD AVOID:

Software services companies over the world are often tempted to one-shot copy this knowledge database because it contains invaluable information which helps them making more profit without the expenses of studying subjects, formalizing them into useful papers for use by their employees and customers.



Deloitte & Touche company proceeded so on Monday 24th of January at the real drawback for the author to be completely unable to use Internet during several minutes as well as preventing any other Web visitor to access the herein contained

information while the one-shot copy was taking place.

Doing a one-shot copy is indeed not what the author advises to any individual or entity (either profit or non-profit). The very reasons the author does not advise doing this is only one-fold:

- The author constantly makes additions of new papers as well as modifications and improvements to existing ones most often based on the public search engines query from anonymous Web visitors he can read in his Apache log file.

In consequence, the one-shot copy may be rapidly out of date in addition with the one-shot copy indeed not helping in improving this public Web material.



Quoting a reflection attributed to Albert Einstein: "I know of two infinite things : the Universe and the human stupidity. For the Universe, I have not

acquired the absolute certainty."

SOME HINTS TO BEST USE THIS WEB SITE:

Lost with the number of Web available articles in this Web directory? Specifically looking for a programming or an HOWTO detail?

Query the local Web site search engine at <http://vouters.dyndns.org/> which indexes all this Web content. No need for a training for this search engine. It is almost as easy and natural as querying Google.

Up and Coming in Legacy Hardware

If you haven't heard of Nemonix Engineering, it won't be long before you do.

Nemonix has grown rapidly over the last 2 years. The company has tripled in revenue in the last fiscal year alone. Nemonix' new product and service innovations, such as new Flash SCSI drives and Nemonix Technology Refresh for legacy hardware, are attracting the attention of VMS market influencers. Their dynamic CEO has recently joined the board of Connect Worldwide (HP user group).

In two weeks, watch for a Tech Tidings two-page special on Nemonix. While you are waiting, DOWNLOAD* this interesting white paper by Turbine Media, that explains how the refreshed hardware from Nemonix is superior to refurbished.





Spiraling – A Better Rightsizing Paradigm

by Robert Gezelter, CSA, CSE

The first question discussed when planning a new system is often: “How large a system should be purchased.” Many times, system sizing is done long before anyone has any sound estimates of system utilization or load. Decisions on sizing are often made long before the relevant code is even designed, much less written and debugged.

This creates a conundrum. One can select a small system, taking the risk that it will be underpowered. Alternatively, one can be very protective, and purchase far more capacity than is likely to be needed, with the hope of preventing any possibility of a capacity shortage. This is a multi-dimensional dilemma. It is a decision with substantial financial impact; excess computing capacity beyond a small safety margin has been one of the worst performing investments in the history of computing. Effective employment of capital requires purchasing enough computing capacity to satisfy needs with a reasonable safety margin to provide for surges in demand. This has always been a dilemma. Today’s challenging financial landscape only exacerbates the problem.

OpenVMS clusters can be used to ameliorate this dilemma, introducing a flexibility that reduces risk and reduces the temptation to over-provision resources.

“Rightsizing” has often been used as a euphemism for “downsizing.” While many use the term to refer to server consolidation or elimination, the concept has far more potential than merely “bean counter” euphemism. Since the dawn of computing, the cost of a unit of computing has steadily decreased over time. It does not generally matter if the capacity is leased, rented, or purchased; installing or arranging for more capacity than is actually needed is almost always a poor choice.

This is true for all classes of computing; be it the oldest mainframe configuration or the latest cloud implementation. From the perspective of the actual equipment owner, equipment installed above and beyond expected usage is an extravagance. Safety margins to handle surges are part and parcel of this calculation. Average usage is not the relevant factor. The relevant factor is



expected usage, plus a capacity reserve to accommodate unexpected surges in demand. Systems rarely have uniform activity. Sometimes, it is a question of generally low usage during a development cycle with surges of testing activity. Later, the tempo increases as a system is brought into production. Once in production a system is subject to the ebbs and flows of business activity – be it the predictable load of a holiday shopping season or a planetary encounter or the unpredictable load caused by crowd hysteria. The computation is the same: expected usage based upon known factors with a supplemental allowance for unpredictable contingencies and failures.

Even when purchasing hosting capacity from others, this calculation cannot be ignored. A provider who under provisions risks the cyber equivalent of a “bank run” on bandwidth or computing capacity, which can lead to missed commitments (I wrote about this issue in general in [Why Settle on a Hosting Provider? Bandwidth liquidity and other issues](#), the May 12, 2010 installment in [Ruminations – An IT Blog](#)). OpenVMS is as vulnerable to under provisioning as is any other system.

The difference with OpenVMS is the flexibility of OpenVMS clusters to expand computing and storage capacity to accommodate the increased load while maintaining overall user availability. The ability of OpenVMS systems to share system residence volumes, together with the ease of creating new nodes and including them into an OpenVMS cluster makes “continuous rightsizing” possible. Nodes can be added to or subtracted from an OpenVMS cluster as needed to maintain the desired processing margins.

Base OpenVMS provides the ability to easily switch configurations. When logical names are properly used, applications are independent of the precise hardware configuration of the host system. OpenVMS clusters enhance this posture by providing further opportunities for increased flexibility. The first step in this direction is changing your default configuration choice from a standalone OpenVMS system to a soloist OpenVMS cluster (see [Soloist OpenVMS Clusters: A New Perspective to Improve Functionality, Flexibility, and Usability](#)). However, a Soloist OpenVMS cluster is only the first step. The second step is hosting the single node of the soloist OpenVMS cluster on a fractionally provisioned virtual machine, either an Alpha



or an Integrity VM. This means that projects can be prototyped and developed at nominal cost; without the need to purchase additional hardware capacity.

Similar strategies can be followed by using Shadowing for OpenVMS, generally known as Host-based Volume Shadowing (HBVS) and Dynamic Volume Expansion to render upgrades in storage capacity and changes in storage technologies invisible to users and overall system operation, an approach described in [Migrating OpenVMS Storage Environments without Interruption or Disruption](#) presented at the 2007 HP Enterprise Technology Symposium).

Starting with this basic foundation, system expansion is straightforward. The time lag between needing capacity and bringing capacity on-stream can be significantly reduced by pre-configuring bootstrap roots for additional, as yet non-realized members of the OpenVMS cluster. Bringing capacity on-stream thus becomes merely a matter of obtaining physical (or virtual) resources needed to run an already configured (but not presently active) OpenVMS cluster member node.

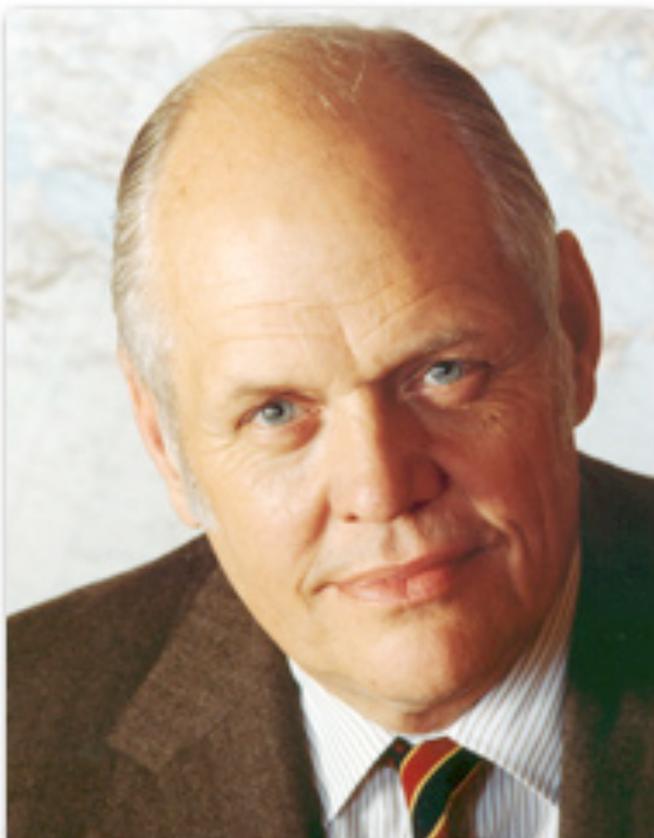
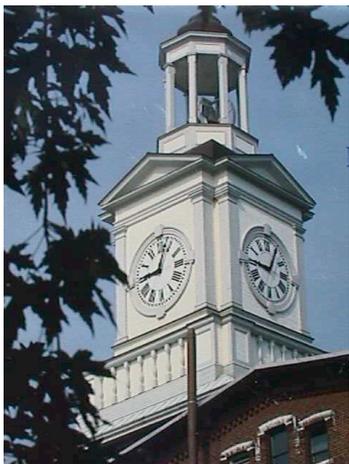
These operational and business concepts were at the heart of my recent OpenVMS Bootcamp presentation [Using OpenVMS Technologies to Build an Agile Computing Base](#). As a courtesy to the community, we have made the slides and audio track from those sessions publicly available.

This is my perspective on how OpenVMS fulfills the aspirations of HP’s Adaptive Infrastructure concept.

This article originally appeared as the November 18, 2010 installment of The OpenVMS Consultant on OpenVMS.org. Please address questions and comments concerning this article to me via my firm’s www site at <http://www.rlgsc.com>.

Biography:

Robert Gezelter has been a member of the OpenVMS community since the initial release of VAX/VMS in 1977. His clients include small businesses to the Fortune 10, locally, nationally, and internationally on matters spanning the range from individual telephone questions to major projects.



Ken Olsen

The genius behind Digital Equipment Corporation, one of the greatest technology companies ever founded.

Article Written by Tom Krazit

Ken Olsen, co-founder of the defining technology company of a bygone era, Digital Equipment Corporation, has died. He was 84.

A spokeswoman for [Gordon College](#) in Massachusetts, where Olsen was a trustee and prominent donor, confirmed Monday evening Twitter reports of his death on Sunday. Olsen's company dominated the minicomputer era of the tech industry from the 1960s through the 1980s with the [PDP](#) and [VAX](#) series computers, and was a key part of the famed Route 128 technology corridor just outside Boston, along with companies like Data General and Wang.

"Ken Olsen is in the elite club of tech founders w/ Gates & Jobs, and set the stage for them. What he did we take for granted today," wrote Dan Bricklin, co-creator of the landmark VisiCalc spreadsheet software, former DEC employee and fellow New Englander, [on his Twitter feed](#).

Olsen led DEC--[later to wind up as part of Compaq](#) and then Hewlett-Packard--during an era in which computing advanced from huge expensive room-sized mainframes produced by companies like IBM

to what were called minicomputers, although they were enormous refrigerator-sized cabinets. They were, however, a much more affordable alternative to mainframes and ushered in an era in which computing grew to dominate back-office functions in even small businesses.

Olsen's PDP computers kick-started the era, and later DEC's VAX machines, powered by the VMS operating system, became nearly ubiquitous, supporting a company that at one point employed over 100,000 people. The company was the starting point for many an East Coast technology worker, and Olsen was known for a management style that encouraged autonomy and responsibility.

"Ken was brilliant, bold, incredibly lucky, impossibly successful, clearly flawed, and delightfully unique. Of all the companies that stood in opposition to IBM in the '70s and '80s, his stood tallest and straightest," Jonathan Eunice, principal advisor at Illuminata and [a CNET Blog Network contributor](#), wrote in an e-mail.

DEC's decline in the early 1990s came as minicomputers were squeezed by powerful Unix and RISC servers and eaten away at the low end by

PCs. Olsen famously once said "there is no reason for any individual to have a computer in his home," which has been cited as an example of DEC's myopia but [appears to have been taken out of context](#) over the years.

DEC did, however, squander its position near the summit of the tech industry with infighting and indecision as smaller and more powerful computers arrived, taking Boston's role as a technology hub along with it as the tech industry headed west to Silicon Valley. The company tried to regain prominence as a chipmaker [with the Alpha processor in the 90s](#), but despite Alpha's technical prowess it was never a big seller. The technology wound up as part of Intel's Itanium chip--[also not a big seller](#)--through partnerships between Intel, Compaq, and HP.

Gordon College is home to the Ken Olsen Science Center and is the curator of his archives. Friends, colleagues, and well-wishers are being invited to submit remembrances of Olsen [here on Gordon's site](#).

Read more: http://news.cnet.com/8301-30684_3-20030941-265.html#ixzz1Dc3Kofzn

Virtual Alpha Developments

FEB-2011

The next release of Avanti, AvantiFlex, and FreeAXP is near. We are finalizing the documentation at this time. The new release features the following improvements: A new underlying framework based on the "http://www.migrationspecialties.com/pdf/2010_BootCamp_DevelopingFreeAXP-Avanti_Emulators.pdf" Theron actor model that improves overall performance and stability. Automatic generation of unique MAC addresses. A new consolidated configuration tool. A new consolidated User Guide.

Theron Framework

The implementation of the Theron framework has improved product stability, aided in software debugging, and enhanced overall performance. This is particularly evident in older versions of OpenVMS and Tru64 Unix. Coupled with the introduction of the DE435 NIC in version 307, OpenVMS 6.n and Tru64 3.2 / 4.0 releases work "out of the box", without any special tweaking.

Automatic MAC Generation

Until now, multiple copies of Avanti and FreeAXP could not co-exist on the same

network without manually modifying their NIC MAC addresses. The new release will automatically generate unique MAC addresses for each NIC assigned to a virtual Alpha. It will no longer be necessary to manually modify MAC addresses. Existing configuration files will continue to work without modification. Manual setting of a MAC address is still supported via the new Configuration Utility.

Consolidated Configuration Utility

A new configuration utility that handles both FreeAXP and Avanti configurations will be included with the new kits. The utility is designed to provide more functionality than the present configuration wizard while retaining a simple, user friendly interface.

When specialized configuration parameters are required, the utility allows the user access to advanced configuration dialogs. The days of manually modifying the configuration script should pretty much be over.

Consolidated User Guide

The new kit will include a new User Guide that covers Avanti, AvantiFlex, and FreeAXP. The manual has been fully updated to cover all new and improved product features.

Visit our "[http](http://www.migrationspecialties.com)" [Virtual Alpha page](#) for additional information on Avanti, AvantiFlex,

and FreeAXP virtual Alpha solutions. FreeAXP downloads stand at 3,285+.

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Continuity in Computing

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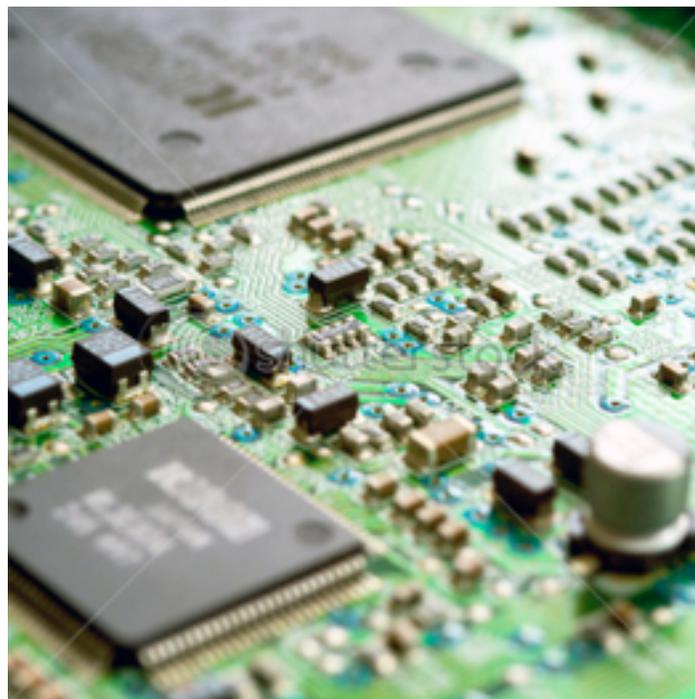
TESSCO Technologies Incorporated

TESSCO Technologies is a industry-leading total source provider, and for nearly three decades, we have been catering to the ever-evolving global wireless marketplace.

Our proprietary Order Entry System was developed in DIBOL, and continues to be developed and maintained in house. In the beginning, the platform of choice was VAX, then Alpha, and now Itanium, and the OS, of course, was OpenVMS. Our Production Alpha cluster comprised 2 ES45's, 1 DS20 and 1 DS10, all running OpenVMS 7.3-2.

In February 2009 we migrated our Alpha cluster to Itanium blades housed in an HP C7000 BladeSystem. Our new cluster is now 3 x BL860c plus the original DS10. The blades are running OpenVMS I64 Version 8.3-1H1, and the DS10 is running OpenVMS Alpha Version 8.3. We retain the DS10 in the cluster to host some unported applications, (Pathworks, FAXSr, etc). In addition to our production cluster, we also run standalone Development, UAT, Software QA, and Hardware Test systems, all on the same BL860c blades. Finally, we are building a new distributed Test Cluster with nodes several miles apart for testing IP Clustering.

Our experience with OpenVMS on the Itanium Bladesystem is that it appears to be rock solid. In addition, the BladeSystem provides both GUI and CLI interfaces to both Onboard Administrator, and Virtual Connect Manager, as well as the iLO/Console, making administrative access, both local and remote, quite straightforward.



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Announces:

vtVAX

Affordable VAX Virtualization
Software
Engineered in the U.S.A.
Local-Country Support

vtVAX is a cost-effective replacement for almost any DEC VAX system. No conversion of VAX source code is required. No user retraining is required. vtVAX is hardware-compatible with the original VAX but provides much faster CPU and disk performance, improving user response times.



"A cost-effective replacement for almost any DEC VAX system. No conversion of VAX source code is required. No user retraining is required."

With the Instruction Caching option, vtVAX dramatically increases the speed of CPU-intensive applications such as floating point and compilers.

The compatibility of vtVAX with VAX hardware has been tested using the original VAX hardware design tools and diagnostics. Compatibility with legacy DEC physical devices including SCSI disks and tapes, serial

ports (including full modem control) and Ethernet cards preserves real-time process control systems. Costly re-certification of systems can be avoided.

vtVAX runs on HP PCs, resulting in reduced maintenance costs and yielding 'green' benefits for the data center. A multi-core HP PC host allows multiple instances of vtVAX to execute on a single PC server, simplifying PC administration and reducing footprint.

vtVAX replaces single-CPU VAX servers with 128, 256 or 512 MB memory. It supports VMS Clusters for high-availability and reliability. Integration with modern data storage solutions including RAID arrays, NAS, SAN, Fiber Channel, FC/IP and FCoE is supported.

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eCube HPUG Seminar on Modernization

Modernizing OpenVMS Integration and Development:
Visual tools for more efficient development and simplified cross-platform integration

- Do you want to get more out of your engineering resources?
- Could you benefit from a more modernized and integrated development process?
- Could your team be more productive if they developed in multiple languages and on various platforms from the same [integrated development environment](#)?
- Are you faced with having to add new members and getting them productive on OpenVMS with as little training as possible?
- Is the rest of your company creating [business value](#) using Eclipse, Java, C#/.NET and Web Services?
- What business value could you create by integrating your existing OpenVMS-based functionality with contemporary languages and architectures?

Join us for an in-depth look at how visual tools from eCube Systems can enable more efficient development and simplified integration



with contemporary platforms. The [NXTware Remote](#) family of tools from [eCube Systems](#) enables engineers, regardless of their level of experience, to be productive developing, maintaining and integrating OpenVMS applications using Eclipse and modern [Web Service architectures](#).

Agenda:

- 10:00 – Registration
- 10:10 – Introduction and welcome - HPUG
- 10:15 – Modernizing OpenVMS Development with NXTware Remote
- 11:30 – Break
- 11:45 – Modernizing OpenVMS Integration with NXTware Remote:
 - * Java/REST Web services
 - * C#/.Net Web services
- 13:00 – Lunch
- 13:45 – Optional Installation Workshop

Speakers:

- Peter Marquez** – NXTware Remote [Marketing Manager](#), Sr. Partner eCube Systems
- Kevin Barnes** – NXTware Remote Product Manager, Managing Partner, eCube Systems

Bruce Ellis Enterprises

Area: Based in the US Northwest, available worldwide

Expertise: OpenVMS Performance, Programming, Troubleshooting, and custom training

Contact: Bruce@theBruceEllis.com or <http://www.TheBruceEllis.com>

Ajay Behari

Area: Netherlands & Belgium. **Expertise:** OpenVMS Clusters, Upgrades/Migrations, RMS file system, System Management & Support, Layered Products & Networking (DECnet/TCP/IP).

Interested in remote work.

Contact: OpenVMS@kpnmail.com

Language (s): English, Dutch & Hindi.

Robert (Bob) Blunt

Area: Contiguous US

Expertise: OpenVMS cluster and standalone installations, moves, upgrades, maintenance, migrations, management, hardware and software configurations, console management, networking, performance and capacity, 3rd party hardware and software.

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Language: English

Carl Friedberg

Area covered: Metro New York. Short term assignments worldwide.

Expertise: clusters, migration, system management, rms and file systems, hardware configurations, training, management consulting

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Language (s): English, German

GAP

Areas: UK, Europe **Expertise:** OpenVMS technical support & remote management, hardware support, consultancy & resale, Oracle Application Development & Support - MarkView consultancy

Contact: support@gap.co.uk

+44 (0) 1276 855 911

Web: <http://www.gap.co.uk>

Language: English

Robert Gezelter

Area: USA, Canada, Worldwide

Expertise: Standalone, networked, and clustered OpenVMS systems architecture, management, programming, file systems, performance, and security.

Contact: <http://www.rlgsc.com/services.html>

Language(s): English

Thomas Heim Jr.

Area Covered: USA

Expertise: process control, automated warehousing and manufacturing, VMS Internals, web services (WSIT) migration,

system management, clusters, blades, StorageWorks

Contact: www.OpenVMS.HeimNet.com

Language(s): English

Maklee Engineering

Area covered: Worldwide

Expertise: OpenVMS Tuning, Oracle Tuning, OpenVMS programming

Contact: info@maklee.com

Languages: English, German, French, Finnish

David Mehren

Area: USA, some international

Expertise: VMS System and Application Management, Application Architecture and Development, Technical Instruction, Realtime Systems and more.

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Language(s): English, Spanish

Migration Specialties

Area: Worldwide

Expertise: Preservation of critical software without modification.

Contact: info@MigrationSpecialties.com

Language: English

Chuck Paulissen

Area: North America

Expertise: OpenVMS Project Management, Software Development and Training

Contact: info@synergysoftwareconsulting.ca

Language: English

Ray Peppo

Area: USA

Expertise: OpenVMS Clusters, Standalone Systems, SAN Implementations

Contact: crpeppo@hotmail.com

Language(s): English

Howard Perry

Areas: Worldwide

Expertise: Oracle RdbVMS management, performance, Skills transfer, anything involving RdbVMS, Mission-critical systems, OpenVMS system management.

Contact: howardjperry@gmail.com

Languages: English, German, French, working knowledge of Swedish and Dutch

Bill Pedersen

Area: Worldwide via remote, Worldwide via sponsorship

Expertise: system administration, migration, performance, C, FORTRAN, networking, project management

Contact: www.ccssc corp.com

Language(s): English, some Spanish

Ed Peterson

Area: Orange County, LA - California

Expertise: VMS, COBOL, ACMS, Rdb (over 25 years)

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Language: English

Stan Quayle

Area covered: USA

Expertise: Clusters, migration, C, CHARON-VAX, CHARON-Alpha, System management (VAX, Alpha, Itanium)

Contact: <http://the-vms-expert.com>

Language(s): English

Edward Rockwell

Area covered: Western PA and Central Florida.

Expertise: OpenVMS VAX/Alpha/Itanium system support, OpenVms clustering, TCPIP and Decnet support and VMS consulting as well as some layered products. VAX/Alpha/Itanium and San hardware installs as needed

Contact: e.o.rockwell@ATT.NET

Language(s): English only.

Frank Sapienza

Area: Northeast USA, Remote Service to all other areas

Expertise: OpenVMS software development/ systems administration, from VAX to Integrity. COBOL, BASIC, Java, Datatrieve, SmartStar, Oracle RDB. Specialty in freight auditing and payment, including ANSI X12 and EDIFACT EDI processing.

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Web Site: <http://www.noesys.com/>

Language(s): English, Italian

Peter Weaver

Area covered; Canada

Expertise: Systems Management, Performance Tuning, Networking, Security, Problem Solving, Anything involving VMS

Contact: www.weaverconsulting.ca

Languages: English

XDelta

Areas: UK, Europe, Americas, Australasia, Australasia, Japan.

Expertise: Mission-critical systems. Multi-site clusters. Real-time systems DTCS.

Networking. Storage. Multi-site data replication. Availability. Performance. Systems engineering and design. Project leadership.

Mentoring, Teaching.

Contact: <http://www.xdelta.co.uk/contactus>

Languages: English

Bart Zorn

Area: Western Europe

Expertise: Design and implementation of High Availability configurations. Server Consolidation. System configuration and management.

Languages: English, Dutch, German.

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Using VMS?

If you're using OpenVMS on your machines then you'll certainly want to sign up for the Special Interest Group (SIG) Mailing List!
The list has recently been automated and you know what that means! Now you can sign up for SIG email or remove yourself from it. Not that anyone would want to do that, but we're all about freedom of choice right folks?

Submissions

If you have an article or other content that you would like to see posted, or you know a company who would like a spot in the newsletter simply let us know! Tech Tidings is looking to grow, so any technically based company is more than welcome to send us an article. Spread the word and help out your VMS community!

Many Thanks and Warm Regards,

Sue and Amanda

techtidings@yahoo.com

Thank You For Reading!

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Acknowledgments

Thank you to all companies, partners and individuals who submitted articles, your help is dually appreciated and noted. We would also like to Acknowledge the following companies:

HP

www.hp.com

Migration Specialties

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

eCube Systems

<http://www.ecubesystems.com>

Don't forget to visit even more of our friends at:

www.openvms.org

and

www.connect-community.org

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