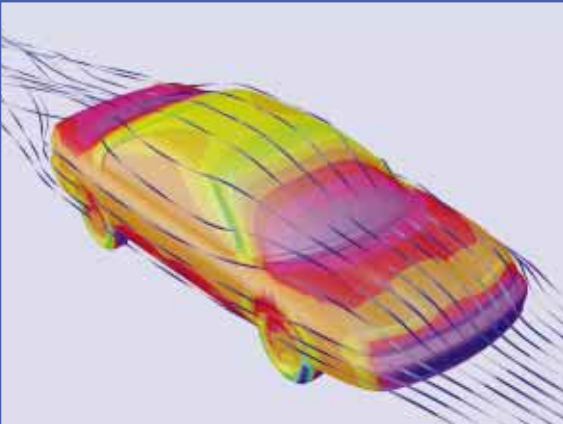
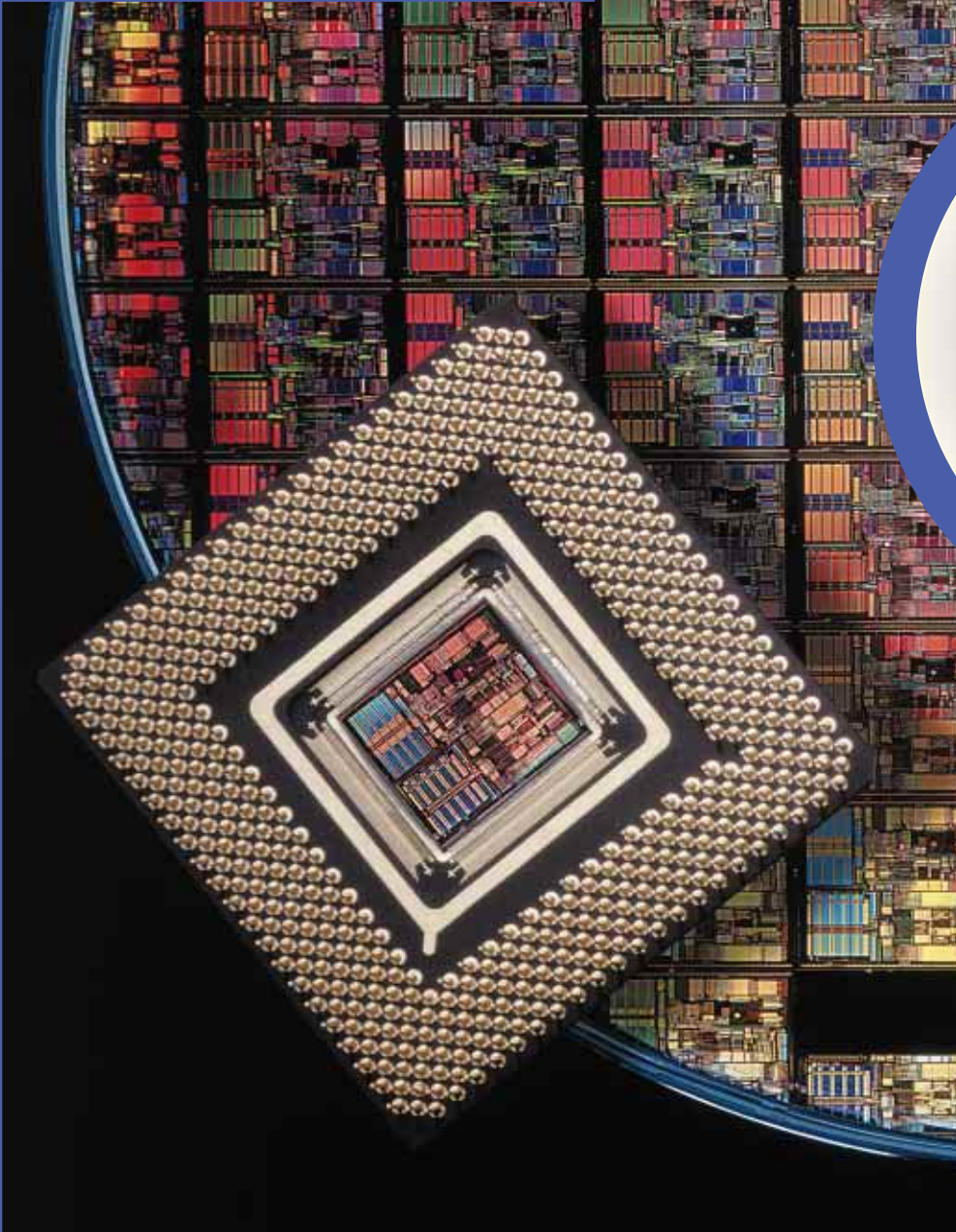


COMPAQ

Compaq solutions for high-performance computing



*Take the
measure of
infinity*



Ten reasons why you should choose Compaq for high-performance technical computing

1. The Alpha™ architecture, developed by Compaq, leads the overall HPTC market in revenue, while Compaq AlphaServer™ systems are moving rapidly toward revenue leadership among HPTC midrange servers.
2. Compaq supports the widest choice of operating systems — Windows NT®, DIGITAL UNIX®, and OpenVMS™ — with interoperability and connectivity programs to build seamless, heterogeneous computing environments.
3. Compaq VLM64 very large memory technology dramatically boosts database performance on AlphaServer systems.
4. Compaq high-performance, affordable uniprocessor and multiprocessor Professional Workstation systems feature Alpha and Intel® CPUs and high-resolution PowerStorm™ graphics for superior speed and 3-D imaging in CAE and visual computing.
5. Compaq StorageWorks™ products, with high-speed I/O interconnects (HiPPI, FibreChannel, UltraSCSI), offer the industry's best selection of high-performance, high-reliability magnetic and optical storage media.
6. Compaq system interconnect technologies, including ServerNet and Memory Channel™, build powerful, clustered AlphaServer and ProLiant™ systems with more than 100 Alpha and Intel processors to solve problems of any size or complexity.
7. Compaq GIGAswitch™, MultiSwitch™, and EtherWORKS™ networking solutions deliver the highest-performance enterprise connectivity, integrating switched Ethernet, Fast Ethernet, FDDI, and ATM.
8. Compaq systems have the best price/performance, best reliability, and the lowest cost of ownership of all competing systems, as determined by industry analyst studies.
9. Compaq has one of the industry's largest networks of business, technology, software, and channels partners, dedicated to delivering the highest-quality customer solutions available.
10. Compaq Services, the world's largest and most respected computing service organization, and Compaq CustomSystems deliver, install, and support both off-the-shelf and special solutions around the world.

Answering the challenge

High-performance computing is insatiable. You can never have too many FLOPS, too much on-line data, too many megaHertz, or too short a response time. Whether you're simulating a combustion vortex in a diesel cylinder, mapping subsurface structures from seismic data, modeling protein functions in biochemical research, rendering thousands of special-effects frames for video or film production, or predicting international fund behavior in a global economy, you face the same challenges. The market continues to demand greater accuracy, better designs, shorter time-to-manufacture, and better returns on investment — while worldwide competition forces prices and margins ever lower.

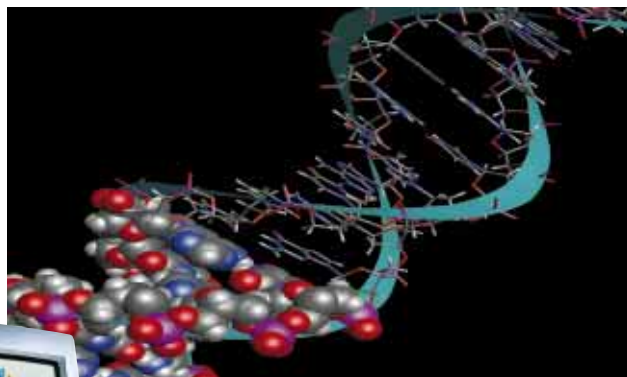
In short, even as the complexity of your work spirals upward, you must produce more accurate results faster and for less cost.

To meet today's challenges, you cannot rely on mere promises of a bright future. You need systems now that deliver the highest performance and availability you can get at prices you can afford. You need applications that work today and that will continue to perform on tomorrow's platforms. You need to invest in hardware, software, services, and training that will pay off both now and as technology advances.

You need the best there is and the best of what is to come.

Compaq and its partners give you both. Together, they provide the high-performance computing infrastructure, the software foundation, and the applications to address your most daunting tasks — today and tomorrow.

Image courtesy of Chemical Computing Group, Inc.



DNA fragment rendered with MOE — the Molecular Operating Environment



Image courtesy of ANSYS, Inc.

Compaq gives users powerful platforms for high-end, compute-intensive applications in mechanical design and analysis, simulation, and visualization.

"We recommend AlphaServer systems to our customers because Digital [now Compaq] provides robust systems and software. This gives users an easy transition to new upgrades of the Genetics Computer Group's Wisconsin Package for quicker access to new programs and enhanced functionality. Since Alpha is solidly 64-bit compliant, an investment made today will retain its value for a long time to come."

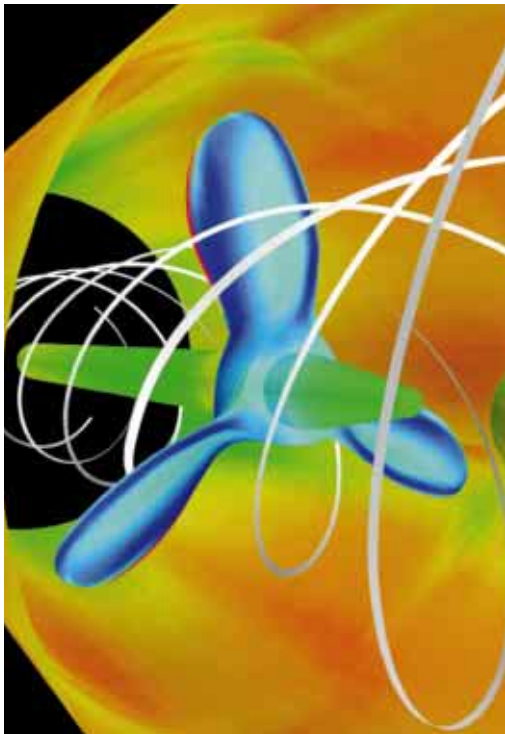
Margaret Smith
Vice President, Operations
Genetics Computer Group, Inc.,
a subsidiary of Oxford Molecular Group

Compaq systems: Driving high performance ever higher

Compaq widens your high-performance horizons with a choice of platforms that offer the highest scalability and broadest operating system flexibility in the industry.

New Proliant 7000 and Proliant 8000 servers, with up to eight Intel Pentium II Xeon CPUs, handle most critical Windows NT applications with ease. Rack-mounted Compaq Professional Workstation clusters let you scale up the number of processors for demanding parallel computing jobs. And new AlphaServer systems and clusters, with the latest Alpha microprocessors, continue to raise the performance bar for both Windows NT and UNIX technical computing.

Image courtesy of Advanced Visual Systems, Inc.



Alpha systems' performance and PowerStorm graphics help engineers perform complex simulations quickly and easily. This image shows the flow of pressure around an impeller in a crystalliser.

"Our customers require the high-performance computing environment for our large analysis programs — as well as the high-end graphics/visualization capabilities available with the Alpha platform."

David Clayworth,
Visualization Developer
AEA Technology

In 1992, the Alpha architecture started a revolution in high-performance computing with the introduction of the industry's fastest microprocessors and its first 64-bit environment. Alpha microprocessors were immediately adopted as building blocks for the world's most powerful supercomputers. Across more than six years and three generations, Alpha systems have maintained a clear performance lead over competing architectures. Over the same period, Alpha software partners have amassed thousands of fast, 64-bit UNIX and 32-bit Windows NT applications, offering you the highest levels of speed and efficiency with the software that you know and trust.

Alpha 21264 — double your performance

The newest microprocessor from Compaq, the Alpha 21264, will keep you in the performance lead in the months and years to come. Four integer and two floating-point pipelines, out-of-order execution, improved branch prediction, high-speed data paths, and clock speeds of 575MHz combine to boost Alpha uniprocessor system performance to 30.3 SPECint95™ and 47.7 SPECfp95™ — as much as double the best marks from today's competing technologies. By the year 2000, Alpha speeds are expected to surpass 1,000MHz and performance to reach 100 SPECint95, extending Alpha ratings dominance.

Software choices fit your environment

Raw chip performance is only part of the story. The Compaq client/server environments of Alpha and Intel workstations and servers offer the best turnaround, throughput, scalability, and operating system flexibility among today's high-performance architectures.

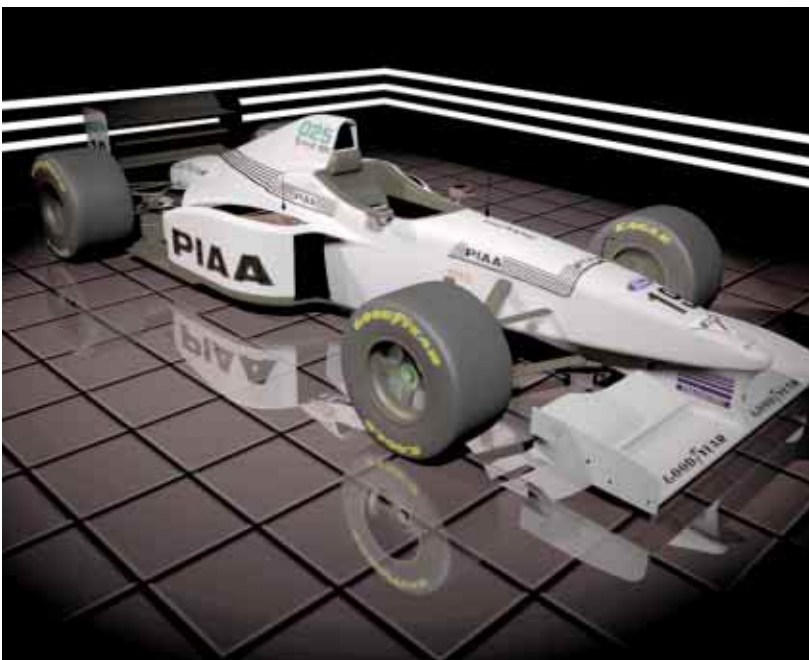
The rich software environments from Compaq include DIGITAL UNIX, the industry's most standards-compliant UNIX system; OpenVMS, the industry's most production-tested, mission-critical 64-bit platform; and Windows NT, the fastest-growing operating system for high-performance applications, supported by the Compaq and Microsoft® Alliance for Enterprise Computing. With Compaq, you enjoy not only the widest choice of software platforms of any manufacturer, but also, through the AllConnect and Affinity programs, the flexibility to deploy mixed environments of Alpha or Intel Windows NT clients and highly scalable AlphaServer systems running DIGITAL UNIX or OpenVMS software.

Analyze, simulate, visualize

Compaq Professional Workstation systems give you the most powerful platforms in their classes for high-end, compute-intensive applications in design analysis, simulation, and digital content creation. The new Professional Workstation SP line, with one or two 450MHz Pentium II Xeon processors and the Compaq Highly Parallel System Architecture, delivers the highest Windows NT performance of all industry-standard workstations.

Compaq Alpha Personal and Ultimate Workstations, sporting 600MHz Alpha processors, consistently win in comparisons against competing UNIX or Windows NT platforms. A dual-processor Ultimate Workstation scored the top mark of 6,625 in HKSI's ABAQUS/Explicit benchmark during a recent test of systems from five manufacturers. The Compaq Professional Workstation XP line, powered by the new Alpha 21264 chip, will soon extend Alpha workstations' undisputed industry performance leadership to new heights.

Image courtesy of Parametric Technology Corporation.



“With Alpha and Pro/ENGINEER, we're turning ideas into products in record time. We have a superb development environment for engineering development and 3D modeling.”

Paul Ihn
Senior VP of Engineering
Automatic Products international (Api)

This 3D model of Philadelphia was developed on Alpha Workstations, using Bentley Systems' MicroStation product. The price/performance of Alpha Personal Workstations makes large visualizations, walkthroughs, and complex evaluations easily within the range of architectural firms' project budgets.



Top performance — made easy

Top-of-the-line AlphaServer 8200 and 8400 systems now bring you blazing Alpha 21264 performance in highly scalable configurations containing from one to 14 processors, all of which can be applied to a single task to slash time to completion dramatically. In tests conducted using the ABAQUS Explicit design analysis application, an AlphaServer 8400 6/575 system delivered more than 2.2 times the performance of a similarly configured SGI Origin 2000 system.

Compaq also makes getting Alpha 21264 performance easy for current AlphaServer 8X00 customers. With a simple board upgrade, AlphaServer 8X00 systems gain computing speed and throughput immediately with real DIGITAL UNIX and Windows NT applications, without any porting or rewriting of code.

Image courtesy of Bentley Systems, Inc.

Fast and affordable PowerStorm graphics accelerators give creative and technical professionals the real-time graphics performance and features to solve complex 3-D analysis problems quickly. With patented anti-aliasing, overlapping transparency, and background reflection mapping, they guarantee superior clarity for model and scene realism. PowerStorm products are optimized for DIGITAL UNIX and Windows NT operating systems and accelerate all OpenGL applications, including mechanical design pre- and post-processing, 3-D GIS, animation, simulation, and scientific visualization.

Reach for the stars

Perhaps nowhere else is the Compaq 64-bit advantage more evident than in AlphaServer technology. For all-out productivity in special effects creation and animated image rendering for today's video and film productions, AlphaServer RenderTower™ and ImageTower™ rack-mount configurations from Compaq CustomSystems bring to bear the floating-point performance of multiple, 600MHz Alpha processors on the most power-hungry DIGITAL UNIX or Windows NT applications. Supporting up to 16 CPUs, 32 GB of memory, and 51.6 GB of disk storage,

RenderTower systems come with critical parameter monitoring and compiler optimization tools that maximize rendering speed and minimize response time. With up to four CPUs, 8 GB of memory, and sustained PCI I/O bandwidth of 400MB/sec, ImageTower systems take rendered images and composite them with the same speed-up, heightening both creativity and your ability to meet unforgiving production schedules.

Multiprocessor Compaq ProLiant servers handle business critical Windows NT applications with ease.



The Compaq 64-bit Alpha architecture pushes address capacity to four billion times that of prior systems, enabling AlphaServer systems to address directly the entire contents of multi-terabyte databases for spatial operations, financial modeling, and clinical trial applications. In addition, with VLM64 Very Large Memory technology, you can put an entire simulation dataset or an information database into main memory and execute simulation or inquiry applications hundreds or even thousands of times faster than applications that rely on disk access.

At NASA's Goddard Space Flight Center, NASA and European Space Agency researchers use Alpha workstations and servers to process data on the sun's behavior from the Solar and Heliospheric Observatory (SOHO) satellite. The Alpha systems decompress and reformat image data in a fraction of the required time and are used to construct time-lapse "movies" of solar flares and other activity, which are shared with solar scientists all over the world.

No-compromise power, high availability

If your computing needs outrun 14 Alpha CPUs, TruCluster and Memory Channel technologies enable you to cluster as many as eight high-end AlphaServer 8400 systems, putting up to 112 processors at your command. Memory Channel extends AlphaServer performance beyond the limits of a single, shared-memory system by implementing virtual shared memory across all connected SMP nodes. Memory Channel clusters can provide more than 100 GFLOPS of peak floating-point performance, while improving latency and bandwidth over standard clusters.

Further, if one system goes down, other clustered systems protect data integrity and maintain availability more securely than any standalone solution.

Compaq *CustomSystems* experts can also provide "clusters in a box" – large multiprocessor configurations specifically tailored for floating-point-intensive, technical applications.

And that's not the end of Alpha scalability. The agreement between Compaq and Quadrics Supercomputers World Ltd. opens the way to use Quadrics' high-performance interconnect technology and parallel operating environment to implement massively parallel processing (MPP) on the AlphaServer UNIX platform. Up to 128 AlphaServer systems can be configured to deliver multi-teraFLOP performance to attack the world's most challenging computing tasks.

Storing and moving your data – fast

High-performance computing applications often generate massive amounts of data and require very large storage facilities to preserve, manage, and make data available. Compaq StorageWorks products employ magnetic and optical media in simple, modular RAID and jukebox systems that let you add "drawers" of storage capacity – up to 40 terabytes – as your needs dictate.

With the GigaSwitch high-speed interconnect and broad support of networking standards, Compaq also provides high-speed links among all your systems for database updates, sharing data among applications, and remote access in heavy-traffic environments. Compaq also supports the 6400MB/sec Gigabyte System Network technology being developed under auspices of the U.S. Department of Energy. The new standard complements Compaq's

arsenal of high-performance interconnect solutions, including Ultra-SCSI, HiPPI-800, Memory Channel, and FibreChannel. In addition, Compaq is a member of the High-performance Networking Forum (HNF), an industry association dedicated to promoting high-performance networking technologies.

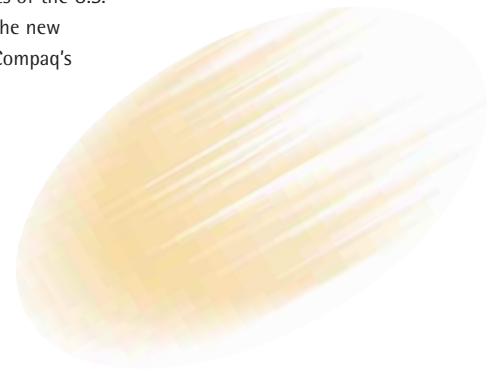


Image courtesy of Engineering Technology Associates, Inc.

Premium performance — at prices you can afford

Compaq systems' industry-leading performance, up to three times that of the competition, comes at prices often lower — especially over the long term — than competitors' comparably equipped systems. Compaq surrounds its world's-fastest Alpha engine with industry-standard buses and interconnects that accept low-cost, off-the-shelf peripheral devices, driving down system costs to commodity levels. Not only are initial purchase costs minimized, but sourcing and attaching low-cost I/O devices, additional memory, and greater storage are also easy and cost-effective.

"This [Alpha 8400] is the fastest SMP system we've run on, and we've run on almost all of them. This box screams."

Mark Seager
Project Manager
Lawrence Livermore National Labs

Both Alpha and Intel Professional Workstation systems from Compaq can be configured with high-speed interconnects in modular, easily scalable "farms" at affordable prices. The industry's best uniprocessor floating-point capability enables clustered Alpha workstations to deliver multi-GFLOP performance for research, finite element analysis (FEA), 3-D animation, and other parallel applications.

"The power and price/performance of 64-bit Alpha computers simply blow away everyone else's systems. We chose Digital [now Compaq] for its true technology advantages and its readiness to fully partner with us. Our decision has paid off for us, our customers, and consumers."

David Zink
Vice President, MIS
Schering-Plough Company
HCP Division

The Spatial Sciences Research Center at Indiana University in Pennsylvania chose MapInfo Professional running on the Alpha Personal Workstation for both power and price/performance. Performance increased nearly four times that of x86-based systems in buffering and display operations, making the Alpha system ideal for modeling, spatial analysis, and facilities management applications.

Lower cost of ownership

A recent Answers Research, Inc. study showed that for a wide range of Alpha servers running DIGITAL UNIX, the total cost of ownership — an important factor in maximizing return on investment — was up to 63 percent less than that for the most popular competing RISC UNIX brands. The Alpha advantage was evident in each of the most significant phases of ownership — acquisition cost, service and maintenance, and expansion.

Compaq also achieves greater overall economy by enabling you to integrate low-cost Windows NT workstation and PC clients into your high-performance computing network for visualization, software development using Digital Visual Fortran, or office productivity. Alpha servers and workstations offer a common platform for both Windows NT and UNIX, and the Compaq AllConnect™ family of integration, development, and migration tools simplifies application interoperability between UNIX and Windows NT environments.



AlphaServer 8400

Building high-performance solutions

No one disputes the fact that applications are the sine qua non of a successful solution. Compaq has long recognized their central importance by working internally and with industry-leading third parties to deliver the application software, services, and development resources that complement Compaq systems and drive high-performance computing in major industries and market segments.

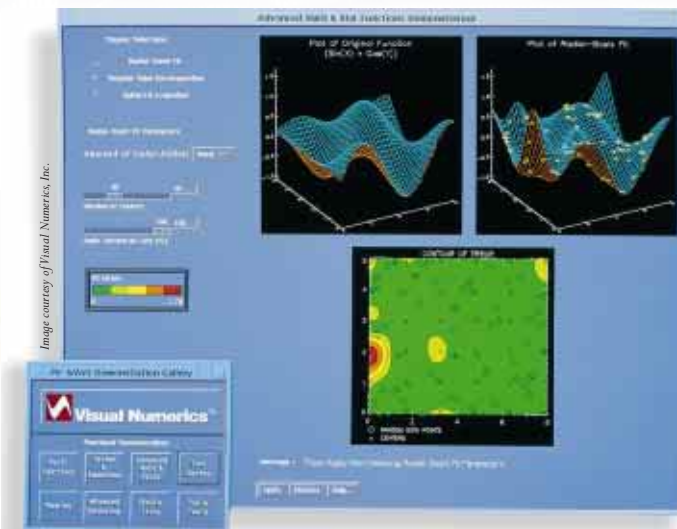
“The Alpha systems represent an excellent way to achieve multi-GFLOP performance.”

Professor Matthew Bailes
Director
Astrophysics and Supercomputing Group
Department of Biophysical Sciences & Electrical Engineering
Swinburne University of Technology, Melbourne, Australia

Drawing on relationships that extend back in some cases for decades, Compaq and its partners provide leading solutions in all high-performance computing disciplines and market segments, including:

- **Bioinformatics:** Compaq combines its industrial-strength, production-quality, scalable Alpha systems and clusters with a strong portfolio of bioinformatics applications that include offerings from partners such as Advance Visual Systems, Incyte Pharmaceuticals, Oxford Molecular/GCG, and Southwest Parallel Software, along with over 60 optimized codes including BLAST, FASTA, SWAT, and PHRAP. Compaq Internet and networking applications are a key component of the total solution.

Partnering with independent solution providers is a time-honored practice at Compaq. Whereas Compaq supplies the physical infrastructure, operating system foundation, and many development tools to build your solution, Compaq software partners design and implement the market-specific applications and the expert support that enable you to deliver on the promises of high-performance computing.



Alpha systems support power-hungry data visualization and analysis applications, and computational tools.

- **Cheminformatics:** To address the needs for chemical data and information, which have exploded with the deployment of combinatorial chemistry and high-throughput screening techniques, Compaq teams with leading software firms like ChemDesign, Daylight Chemical Information Systems, MDL Information Systems, Oxford Molecular Group, and alliance partner Oracle®. Compaq offers well tested, robust, 64-bit Alpha and StorageWorks solutions to handle the growing volumes of data.

- **Clinical trials data management:** AlphaServer and TruCluster™ systems running DIGITAL UNIX, OpenVMS, and Windows NT provide the large database performance and high reliability that are essential to capture and preserve test data in the regulated clinical science environment. Compaq works in concert with partners such as Domain Solutions, Oracle, and SAS Institute.

- **Computational chemistry:** Compaq works with application partners such as Gaussian, Oxford Molecular Group, SemiChem, Wavefunction, and others to provide the best computational performance needed to solve structures, properties, and reactions of small and large molecules. Compaq provides a full range of solutions from Alpha workstations to large Memory Channel clusters of symmetric multiprocessing AlphaServer systems.

- **Digital content creation:** Compaq offers its Alpha and Intel workstation clusters and farms, with industry-leading price/performance, in conjunction with 3-D image rendering software from partners including Alias/Wavefront, Avid Technology, Kinetix, Newtek, and Pixar, plus compositing software from firms such as Eye-On Software, Adobe Systems, and Discreet Logic. Alpha workstation farms have been used by special effects studios for such blockbuster films as *Titanic*, *Men in Black*, *Tomorrow Never Dies*, and *Spawn*, as well as for many other films and television commercials.

- **Electronic design automation (EDA):** For IC semiconductor and IC systems designers who manufacture or use integrated circuits, Compaq offers an IC Solution Set comprising superfast Alpha servers and workstations utilizing IC CAE, verification, and device/process simulation software from major industry partners including Avant!, Mentor Graphics, Synopsys, TMA, Silvaco, and Vector Technology.

“Compaq VAX and Alpha systems have been major players in Utilities Energy Management for the past fifteen years. In fact, our analysis shows that 65% of the world’s power is controlled by systems from Compaq and its partners”

Chuck Newton
President
Newton-Evans Research, Inc.



Image courtesy of ISD New England

The reliability and availability of Compaq Alpha systems offer the utility industry a sound investment for energy management and distribution.

- **Energy management:** Working with partners such as ABB, CAE, Cegelec ESCA, Eltag Bailey, and Landis & Gyr, Compaq has achieved the leading position in the Energy Management System/Supervisory Control and Data Acquisition (EMS/SCADA) market. Compaq platforms are used in 65 percent of the world's energy management control centers installed since 1992.

- **Financial modeling/risk management:** Whether analyzing a global trading portfolio with analytics from Infinity or the risk profile of an entire financial enterprise with RADAR from Risk Management Technologies, financial managers have a distinct edge with Compaq Alpha platforms. The leading software in the financial services industry performs at record speeds no matter how large the database, how complex the analytics, or how demanding the visuals. Partners like Neovision Hypersystems, OMR, Quantitative Risk Management, TIBCO, Visual Numerics, and Wall Street Systems depend on Compaq systems' unsurpassed performance.

- **Geographic Information Systems (GIS):** Compaq and its software partners, including ERDAS, ESRI, MapInfo, and SmallWorld, enable customers to achieve better management of spatial data — economical production of maps, satellite imaging and classification analysis, accurate modeling of plumes of underground pollution, flood probability analysis of land parcels, and route planning for emergency response.

- **Engineering design and analysis:** The extreme performance required to conduct simulation in Virtual Product Development environments has made Compaq a leader in the engineering design and analysis market. To shorten time-to-market and improve product fitness-for-use, leading mechanical computer-aided engineering applications optimized for Alpha include software from AEA Technology, ANSYS, Computation Dynamics, Fluent, Hibbitt Karlsson and Sorensen, Livermore Software Technology, MacNeal-Schwendler, MARC Analysis Research, Mecalog SARL, PAM Systems International, and more.

- **HPTC application development and management tools:** To develop customized applications in-house for UNIX systems, Compaq offers ANSI C developer's toolkit for DIGITAL UNIX, Fortran (OpenMP Directives), C++, Ada, KAP for Fortran and C, The Enterprise Tool Kit (UNIX application development from Windows NT desktops), PSE (includes PVM, MPI, HPF runtime), DXML, OpenGL, Performance Visualizer, TruCluster MEMORY CHANNEL™ software, Digital CPI, and LSF. Compaq software partners offer math libraries (NAG, IMSL, FMS, CPLEX), TotalView, VAST, Linda, KAP/Pro Toolset, FORGExplorer, CacheVU, VAMPIR, CODINE, and GRD.

Compaq Professional Workstations can be assembled in rackmounted clusters to attack compute-intensive tasks such as 3-D animation and image rendering computer aided engineering, and financial analyses.

For Windows NT, Compaq offers Visual Fortran (with IMSL), Visual Batch, KAP for Fortran and C, Digital CPI, and OpenGL. Compaq software partners offer CacheVU, FMS, FORGExplorer, VAST, KAP/Pro Toolset, LSF, PaTENT MPI, Microsoft Visual C++, MPI/Pro, NAG, and PVM.

Other complementary application development tools that include visualization and interactive mathematical tools can be obtained from other software partners for both UNIX and Windows NT.

“The rendering time for Werewolf was cut nearly in half by using the RenderTower system running 64-bit DIGITAL UNIX. No question about it: the Alpha Boxes are the fastest around for the money.”

Bruce Jones
Executive Producer and Vice President of Production
Santa Barbara Studios
Santa Barbara, CA



Investing in your future — safely

Compaq high-performance systems continue to gain new customers and increase market share. International Data Corporation reports that Compaq has moved into second place in the worldwide high-performance computing market, as the Alpha architecture took the top spot in overall high-performance system revenue for 1997 with a 26.4% share and Alpha sales swelled to account for 35.8% of high-performance midrange revenues.

Compaq safeguards your investments in Alpha high-performance systems in several ways.

- **Sustained leadership**

Having already established six years of microprocessor performance leadership, Compaq has the products and the designs to sustain that leadership well into the 21st century, ensuring that you, too, stay on the leading edge.

- **Scalability**

Unequaled Alpha scalability, from Windows NT workstations to clustered servers and MPP supercomputers at the high end, offers you virtually unlimited possibilities for growth.

Image courtesy of MultiGen-Paradigm, Inc.



The compute and graphics power of Windows NT on Alpha systems lets MultiGen-Paradigm's Vega™ visual simulation software run at unparalleled speed.

“Our new Alpha Personal Workstations enable us to build terrain models while decision-makers watch the screen. The entirely scalable Alpha environment enables us to do more with fewer personnel. We are building a whole new generation of GIS on our Alpha platform. It's a great move.”

Frits C. Cattenstart
GIS Systems Analyst
Ministry of Agriculture
Service for Land & Water Management, Utrecht, The Netherlands



- **Common UNIX development environment**

DIGITAL UNIX software on Alpha offers you the most advanced, application-rich, standards-compliant 64-bit computing environment available today, plus compatibility with tomorrow's IA-64 architecture. Compaq is working with Intel and Sequent to design a common development environment for DIGITAL UNIX on Alpha and future IA-64 systems from a variety of vendors. DIGITAL UNIX thus offers a one-step, least-risk application development process for both Alpha and IA-64, ensuring that today's DIGITAL UNIX software investments pay dividends with tomorrow's high-performance technologies — and save you from future migration headaches.

- **Windows NT support**

Both Alpha and Intel platforms from Compaq give you access to a portfolio of thousands of Windows NT applications today, plus a uniform environment to develop and run 64-bit Windows NT applications on Alpha and IA-64 systems tomorrow. Many compute-intensive and database applications are available now on Windows NT and the number is growing rapidly, ensuring that Compaq Alpha and Intel workstations and servers will continue to be your ticket to top performance. Compaq also actively supports mixed environments of Windows NT clients and UNIX servers.

Windows NT strength was a factor in the Indianapolis/Marion County (Indiana) government's choice of an Alpha and ESRI client/server GIS solution, which provides both the scalability to accommodate more users and the ability to switch operating systems without changing hardware for unmatched flexibility and investment protection.

- **Alpha Windows compatibility**

Digital FX!32 translation software extends Alpha compatibility to all 32-bit Windows applications, including popular personal and office productivity suites. With Alpha, you can run Windows NT applications for simulation and visualization as well as write analytical studies and project reports — on the same system.

- **Custom solutions**

Compaq *CustomSystems* helps you solve your particular IT problems with a range of added-value offerings geared to emerging opportunities in communications, enterprise high-availability, Internet, manufacturing, and government/defense industries. *CustomSystems* tools to build ready-to-go systems for high performance, high-speed networking, high-speed backup, disaster recovery, and many other special needs encompass best-of-breed tools from Compaq, its partners, and more than 30 years of experience in delivering custom solutions.

- **Service**

Compaq Services helps you plan, design, implement, and manage your hardware, software, and networks — from asset acquisition to product replacement or retirement. Seven-by-24 support from Compaq Services is available in more than 100 countries — not just for Compaq systems but for all your equipment, giving you a one-call service vendor. We stand behind our products, with a one-year warranty for AlphaServer systems and a three-year hardware warranty for Compaq workstations, which is unmatched in the industry.

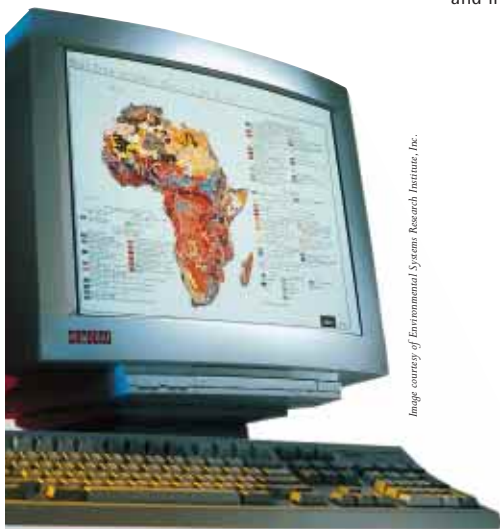


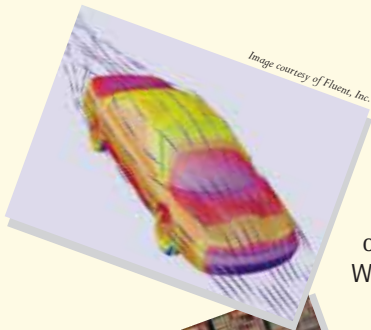
Image courtesy of Environmental Systems Research Institute, Inc.

The speed and scalability of Alpha systems helps geographic information systems users to improve management of spatial data and boost productivity.

“Science seeks to reduce the time to discovery. Powerful computers and high performance graphics are critical to achieving this goal. Our institute uses Alpha graphics workstations and servers because they enable us to produce solutions in the shortest time possible.”

Dr. Duilio Cascio
Research Faculty Member
Molecular Biology Institute
University of California at Los Angeles

“We wanted to connect to a single server that had the processing power and memory capacity to access a terabyte of data or more under high stress, high volume Internet activity. You can put **more memory and CPU power** in a Compaq system than any other single CPU on the planet – **that’s what makes the Compaq story important.**” **Tom Barclay, TerraServer Project Director, Microsoft® Corporation**



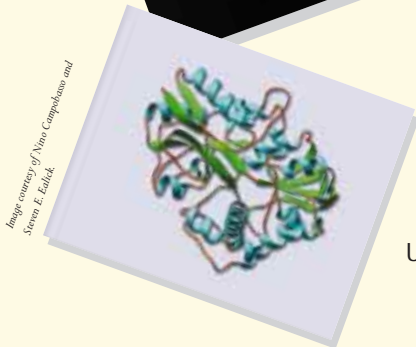
“We are seeing a significant growth in Windows NT® installations of our products. It is increasingly common for engineers and designers to use a Windows NT desktop system for design and pre- and post-processing, while still using a large Alpha cluster for their large CFD simulations. Compaq, by offering both environments, makes it particularly easy to support the mixed Windows NT and UNIX® environment.”

Dipankar Choudhury, Director of Development, Fluent, Inc.



“The large-scale migration to network computing is fueling demand for powerful servers. With the Alpha 21264 processor, our joint customers will be able to solve their most complex problems faster. Oracle's Alpha engineering organization has worked closely with the Alpha design team to optimize the performance and scalability of Oracle's products, including Oracle8™, Oracle® Applications, and Oracle Video Server.”

Gary Bloom, Senior Vice President, Systems Products, Oracle Corporation



The Compaq 3D Alpha system is an ideal platform for determining and displaying macromolecular structure. This structure of Thiaminase-I, an enzyme implicated in causing beri-beri, was refined using XPLOR (from Axel Brunger, Yale University) and displayed with Ribbons (developed by Mike Carson, University of Alabama).

Closing the loop

For more information about Compaq high-performance solutions, check the Compaq high-performance computing Web site at <http://www.digital.com/info/hpc>

For the name of your nearest Compaq sales representative or Authorized Compaq Business Partner in the U.S., call 1-800-DIGITAL. In other countries, locate your nearest contact at <http://www.digital.com/info/hpc> and click *"How to buy."*



"There is not a **workstation on the planet** – Silicon Graphics included – that can **keep up with Alpha** workstations. In our industry, the supremacy of Alpha workstation technology is **an established fact.**" – **Gary Davis, President, Animation House, Inc.**

