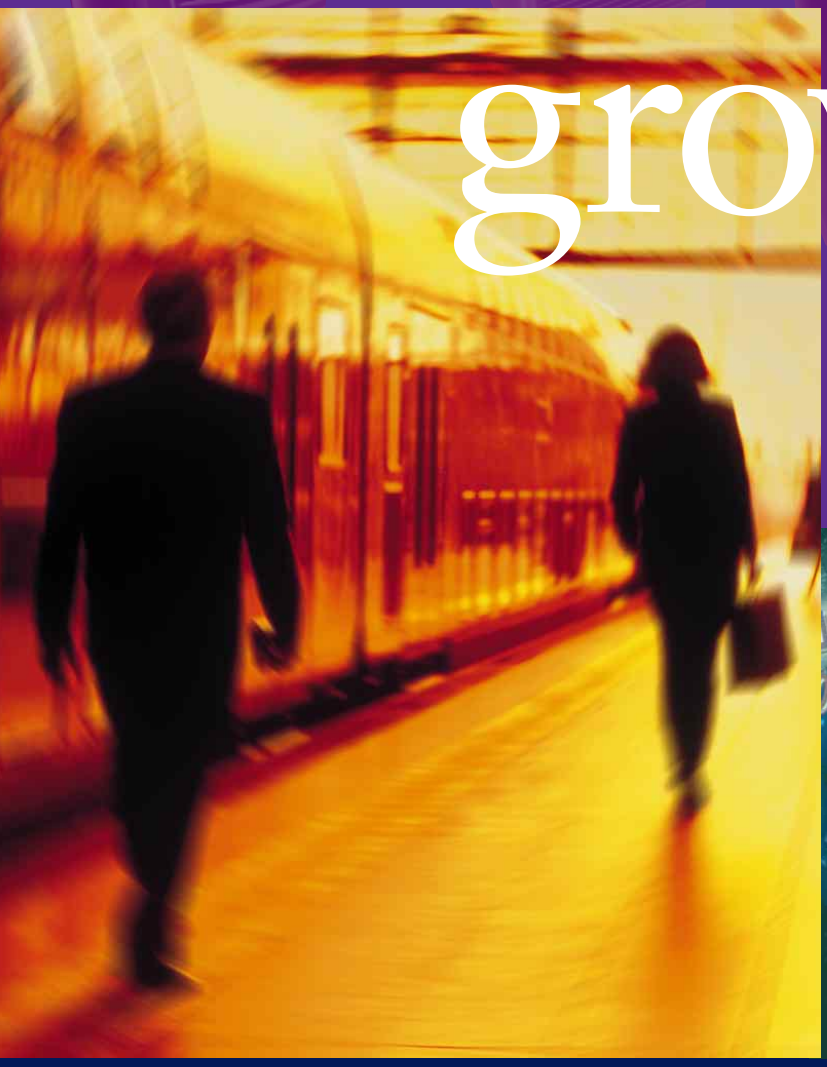
Compaq AlphaServer Series

AlphaPowered

Need a solution that can grow with you?



"(The) AlphaServer series knows no rival."

Jeff Bezos
CEO and Founder
Amazon.com

COMPAQ
Better answers

COMPAQ

How can you stop worrying about technology and focus on growing your business?

With *Compaq NonStop*® eBusiness Solutions and AlphaServer Systems.

Your business is moving at blinding speed as we mark a new millennium. Blink an eye, and you've missed your chance — especially on the Internet. You must be ready to strike when the iron is hot, to turn opportunity into profit. And the last thing you need to worry about is whether your technology base can keep pace with your success.

How can you be sure you've chosen the best partner for a new era? By selecting experience over hype. Innovation over imitation. Intuition over guesswork. And by choosing a provider savvy enough to anticipate your needs — and offer solutions before you need to ask.

In essence, you will win by choosing the market leader first. You'll win by choosing the Compaq™ AlphaServer™ series — servers that deliver operating system freedom. Your AlphaServer series can run — or move to or from — *Compaq Tru64™ UNIX®*, Compaq OpenVMS™, Microsoft® Windows NT™, and Linux®.

AlphaPowered

"Alpha platform has the power and expandability to keep up with exponential growth."

Robert J. Davis
President and CEO
Lycos, Inc.

"We count on (Alpha) systems to keep things running."

Information Technology Department
Toys "R" Us

What makes the Compaq AlphaServer series my first choice?

It's all about common business sense. By implementing the most advanced technology today — with intelligent, complete solutions that have been proven under fire — you ensure your business can take advantage of today's challenges and tomorrow's opportunities. While most 64-bit solutions are working out the bugs of a first-generation product, the full line of the powerful, scalable, highly reliable, and flexible AlphaServer series has been hard at work in businesses just like yours for more than six years. There just isn't any replacement for that kind of experience.

In today's third generation of the 64-bit Compaq AlphaServer series, you'll find an unrivaled commitment to excellence that will help you define, divide, and conquer a new world of computing. In the new era, old measures of success will fall by the wayside. And as a partner, consultant, and advisor, Compaq will be there with you as your business reaches new — often unimagined — pinnacles of success.

OK, the hardware is superior — but what about applications?

Whether you're deploying leadership applications like SAP R/3®, Baan®, or PeopleSoft™. Or you require leading database tools from Oracle®, Sybase®, and Informix®. Or you want more speed and power to boost the performance of what you've got. Or you need Netscape® to perform at top levels with the new wave of powerful Internet applications. The Compaq AlphaServer series offers a clear path to success.

And with more than 12,000 robust Alpha applications to choose from, you can be confident you'll have whatever you need to handle the most demanding tasks, boost productivity, and shorten your time-to-solution.

Give me a real-world example.

Toys "R" Us® needed a fast, efficient way to install a data warehouse in order to maximize advertising dollars and anticipate consumer trends — no easy task, as children's trends come and go quickly. If you have the hot toys on the shelves for the big rush, you win big. If not...

Installing a data warehouse was a key strategy for Toys "R" Us because, like many businesses, they had collected vast amounts of customer information. Yet, there was no system in place to efficiently manage and disseminate the actionable information the marketing team needed to turn Toys "R" Us data into profit.

That is, until RTP Technology and Compaq stepped in. Using the skills and dedication of RTP Technology, a systems integrator and value-added reseller specializing in the AlphaServer series, Toys "R" Us found success, but only after making an adjustment to their original hardware strategy:

"We originally launched our data warehouse on an IBM® SP2® mainframe, but our staff needed faster response time. So RTP brought in an AlphaServer 8400 and helped to set up the data warehouse using Oracle7®. Such analysis helps us to make wise investments in our advertising dollars — and to anticipate emerging trends. Many of our applications are business critical, and we count on (Alpha) systems to keep things running."

Information Technology Department
Toys "R" Us

What about the Internet?

Every Compaq AlphaServer series is delivered Internet-Energized — bundled with a full suite of pre-tested, Internet-application software that will help you turn Internet opportunities into real profit, safely and securely.

And if you need to build a company-wide Intranet that can save millions on telecommunications charges and boost productivity by directly linking your people, partners, suppliers, and customers, AlphaServers are again your best choice.

"Alpha is the only server powerful enough to satisfy our requirements (and) provide the growth potential we need."

Darrell Mollet
Technical Manager
Lucent Technologies

It's no wonder that the unmatched headroom, performance, and availability displayed by the AlphaServer series have won over many of the most famous players in the dynamic Internet marketplace. Players like Amazon.com®.

With an unheard of compound growth rate of 3,000% per year, Amazon.com is the world's largest online bookstore. And that phenomenal growth started right from the company's founding:

"After a relatively short time in business, our sales far exceeded projections. The extensive Web server capabilities of... (the) AlphaServer series, coupled with its smooth upgrade path, provided the perfect solution for our rapid growth curve. I've advised many people in this business that if you're ever afraid you might end up with a stunning annual growth rate, then you'd better invest in a highly scalable computer platform. (The) AlphaServer series knows no rival."

Jeff Bezos
CEO and Founder, Amazon.com

And what about massive compute demands?

In 1996, Lucent Technologies' first year in business, revenues topped $20 billion. To say they hit the ground running would be a classic understatement.

In order to cut costs and improve efficiency, Lucent made the decision to centralize the manufacturing of their most popular product, the 5ESS electronic switch. To meet massive compute demands at the Oklahoma City site, Lucent installed the clustered AlphaServer series and QAD™ MFG/PRO® software. In raw numbers, Compaq TruCluster™ Solutions churn through 1 trillion instructions a day for Lucent.

"Alpha is the only server powerful enough to satisfy our requirements, provide the growth potential we need, and handle real-time interfaces for over 250 concurrent MFG/PRO users."

Darrell Mollet
Technical Manager, Lucent Technologies

But there's more. Compaq delivers blinding speed as well as massive capacity:

"Alpha systems accommodate much more memory than we've been able to use on any of our preceding platforms. The difference in processing speed is phenomenal — it's nanoseconds as opposed to seconds..."

Danny Gallant
Technical Staff, Lucent Technologies

Talk to me about reliability.

Businesses just can't tolerate system downtime, and that's certainly the case at the American Stock Exchange® (AMEX®), where a failure in key applications could bring an abrupt halt to trading operations.

With such demanding needs, AMEX doesn't take chances on unproven technologies. For years, it has relied on Compaq computing systems as the host platforms for some of its most critical applications, including its equities and options display books for specialists on the AMEX trading floor.

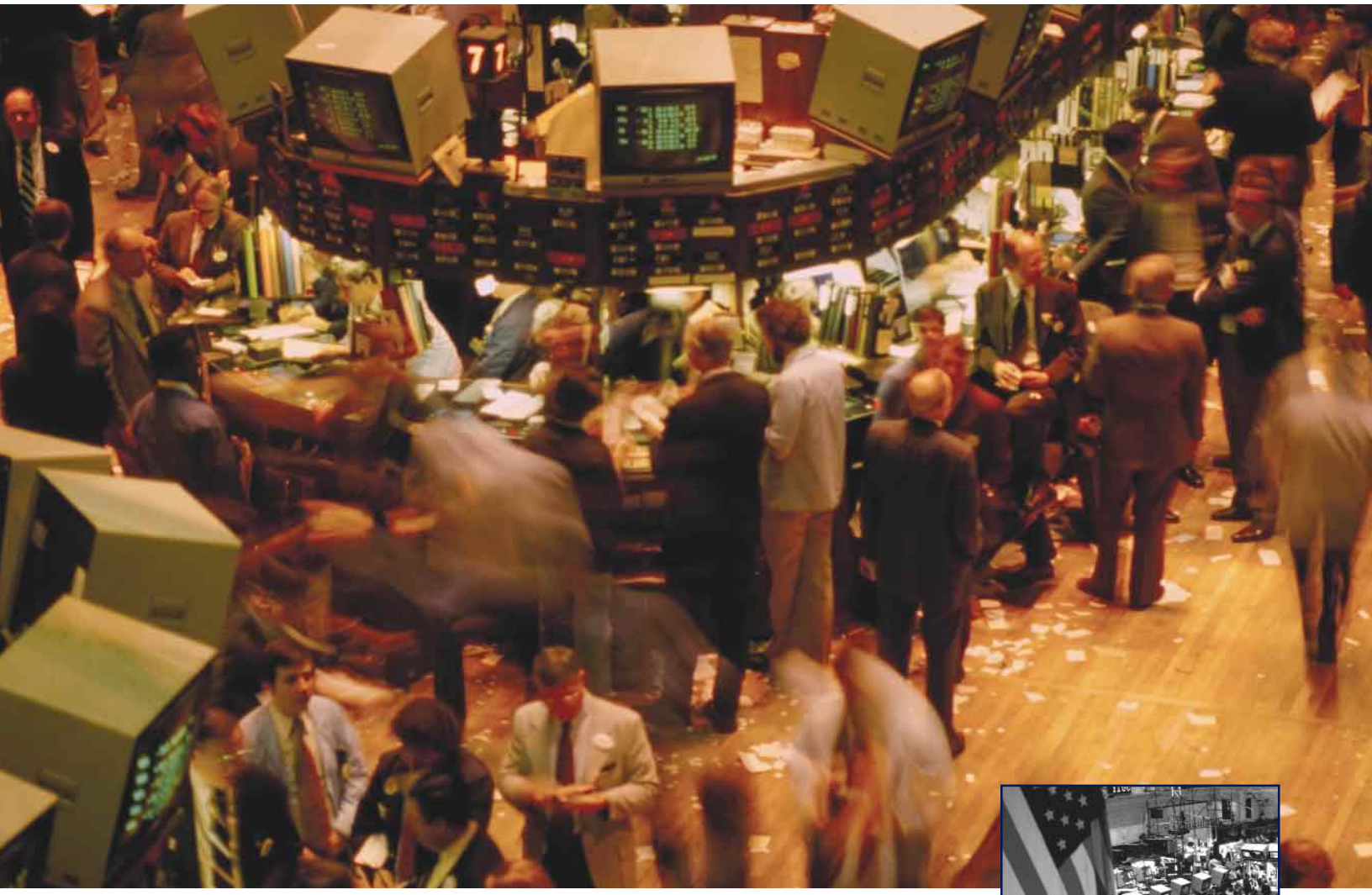
"The equity display book — running on OpenVMS clusters — is our most critical equity application at the AMEX. It has an availability measurement of 99.9 percent over the last four years. We count on AlphaServers for... the scalability to support our needs well into the future."

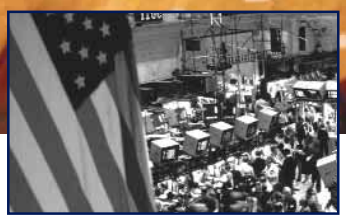
Warren Kaiser
Senior Vice President, Information Technology, AMEX

So you see a bright future for the AlphaServer line?

Absolutely. 100%. Unequivocally. With the six-year head start we have in the 64-bit market — and the enormous wealth of technology, talent, and resources that a world leader like Compaq can commit to an already outstanding product, we think you'll find your AlphaServer investment will pay dividends for many, many years to come.

Why are we so confident about your long-term gains? Because with the addition of the new Alpha 21264 processor to our AlphaServer DS,ES and GS systems, you can get up to twice the application performance. That's investment protection you can take to the bank.



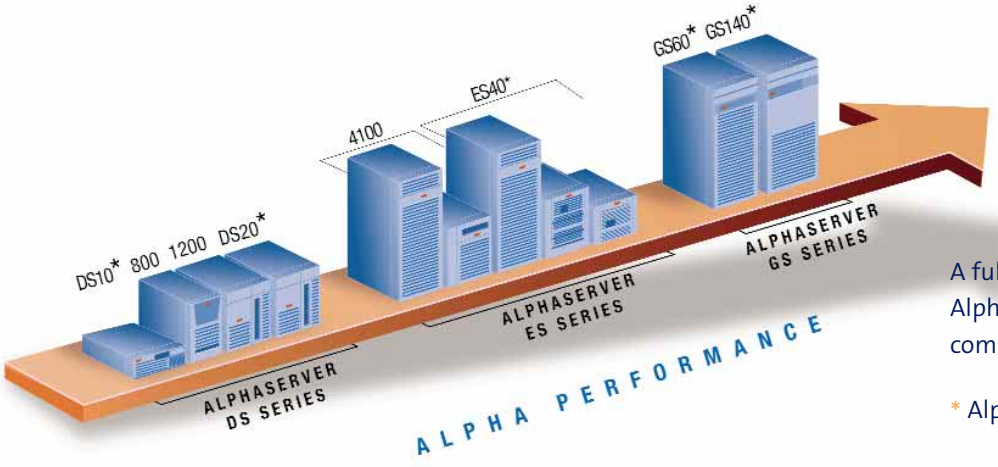


powerful

"We count on AlphaServers for... the scalability to support our needs well into the future."

Warren Kaiser
Senior VP, IT
AMEX

performance



A full line of high performance AlphaServers to meet your computing needs.

* Alpha 21264 Powered

"The AlphaServer... superior in both price and performance."

Dr. Chinmoy Pal
Research Engineer
Nissan Motor Corporation

Really? How else are you working today — right now — to protect my investment?

We have some of the best and brightest minds in the industry making certain your AlphaServer competitive advantage keeps you ahead of the pack for years to come.

Compaq AlphaServers are ready today — right now — to keep up with your business, whether you need more CPU power, memory, or storage. And you can count on a seamless upgrade path, whether you need even more memory or storage — or you want to cluster many AlphaServers together for unbeatable availability and power.

Moreover, the Compaq AlphaServer series not only protects your hardware investment, but also safeguards your most expensive resources: your trained personnel and software. Applications that run on today's versions of *Tru64 UNIX* and OpenVMS will run up to two times faster — without recompiling — on our new systems.

In addition, the powerhouse 64-bit Compaq AlphaServer series is designed for the greatest flexibility in growing your system, allowing you to easily attach low-cost industry standard devices; networking and I/O capabilities; and other improvements as the need arises. The only constant in your server requirements is change, and the AlphaServer series is best equipped to meet the challenges you will face — with exceptional performance today and extraordinary value over the long haul.

How do I know which system is right for my business?

Our design team has been working hard to give you all the choices you need, in exactly the configuration you want. And we've divided our AlphaServer line into three categories: the DS, ES, and GS series. You may be able to determine what you need right away, or you may want to speak with your local Compaq representative.

Compaq AlphaServer DS Series

When it comes to building your 21st century computing solution, the Compaq AlphaServer DS series offers you an entirely new class of computing. With up to two powerful new Alpha 21264 processors and robust remote-management capabilities, the AlphaServer DS series gives you supercomputer power at an industry-shaking price point. This series is ideal for branch deployment; department and workgroup business and data base applications; ISP solutions; Web servers; and telecom and high-performance technical computing applications.

Whether you're deploying large numbers of servers at remote locations — or trying to keep up with the scalability demands of unpredictable Internet applications — the AlphaServer DS series has the right solution for you.

Compaq AlphaServer ES Series

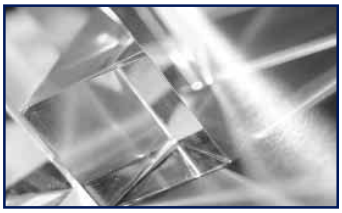
To bring even more performance and scalability to your 21st century computing solution, consider the Compaq AlphaServer ES series. Delivering the enterprise solutions that your business needs — with up to 4 CPUs, the power boost of 16 gigabytes of Very Large Memory, high-performance 64-bit PCI I/O, and robust high-availability features — the AlphaServer ES series is ideal for a wide range of applications.

And if you're looking for blazing speed with room to grow in a single solution, the Compaq AlphaServer ES series really delivers. Whether you're running enterprise-wide applications like SAP or PeopleSoft, power-hungry decision support systems, or leading-edge technical applications that devour compute power, you can count on the Compaq AlphaServer ES series — with new Alpha 21264 processors — to get the job done.

Compaq AlphaServer GS Series

For the ultimate in every aspect of 21st century computing, look to the Compaq AlphaServer GS series. Offering the most scalable servers ever assembled for global solutions with up to 14 CPUs — and the added power of the new Alpha 21264 processor — the AlphaServer GS series delivers compute power that not long ago was considered impossible.

Plus, with up to 28 gigabytes of Very Large Memory, the absolute highest in I/O performance, a full range of high-availability features, and maximum scalability, the AlphaServer GS series is your only choice for your toughest assignments.



"The DS20 shows a strikingly powerful capability for numerical calculations in scientific/technical research. We are creating a large parallel computer system with 64 DS20s... its performance exceeds that of existing parallel computers with more than 1,000 nodes. We are looking forward to... running our heavy calculations of nuclear physics which cannot be performed anywhere else."

Dr. Takaharu Otsuka
Professor of Physics, University of Tokyo
Senior Visiting Scientist — RIKEN (Institute of Physical and Chemical Research)

The AlphaServer GS series offers businesses that want to solve large-scale computing problems excellent application performance and price/performance — with the ability to flexibly grow the computing environment — while maintaining operation and management simplicity.

And if you need more power for quick application run times, rapid query-response times, complex queries — or other compute intensive tasks — the blazingly fast performance of the AlphaServer GS systems will slash your time to completion dramatically. They will help you to extract critical business information quickly from your data warehouse — or accelerate enterprise resource-planning applications such as SAP R/3, PeopleSoft, Baan, and Oracle applications.

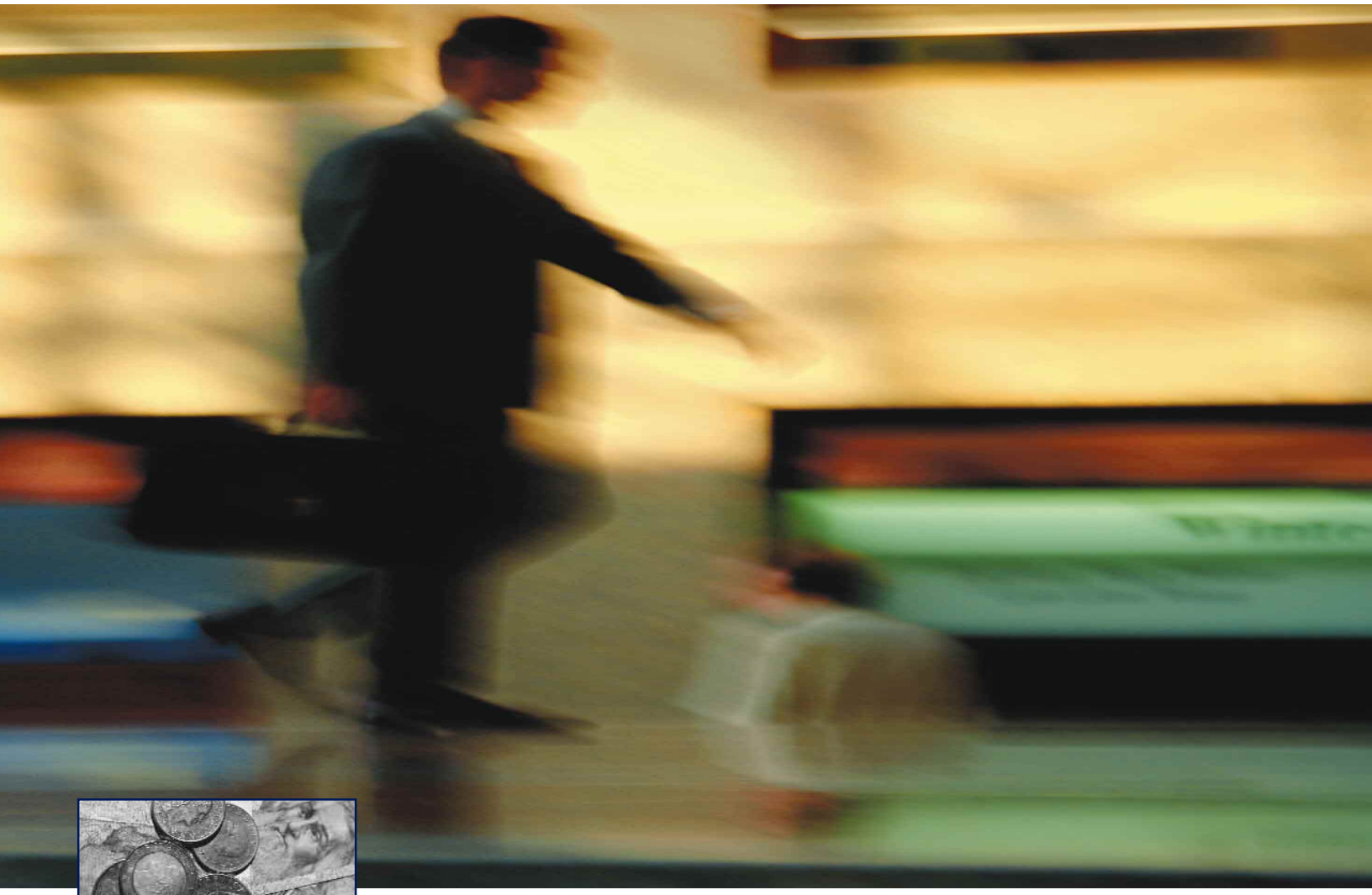
What do you mean by "21st century" computing?

Today, thousands of companies are already reaping the benefits of complete, proven 64-bit *NonStop*® eBusiness AlphaServer solutions... solutions that are dramatically accelerating productivity and competitiveness... solutions you need in today's volatile and demanding marketplace.

With the power of complete 64-bit computing at the platform, operating system, database, and application levels, your business will get an adrenaline rush in performance that can accelerate your Web presence — today — and in the rapid growth this market promises in the new century.

You'll give your CAD/CAM and engineering a quantum leap in productivity — today. You'll put your data mining and decision support capabilities light years ahead — today. And you'll speed up the response time of the mission-critical enterprise applications that are the very heartbeat of your business — today — and every day as you move into the uncharted territory of 21st century computing.

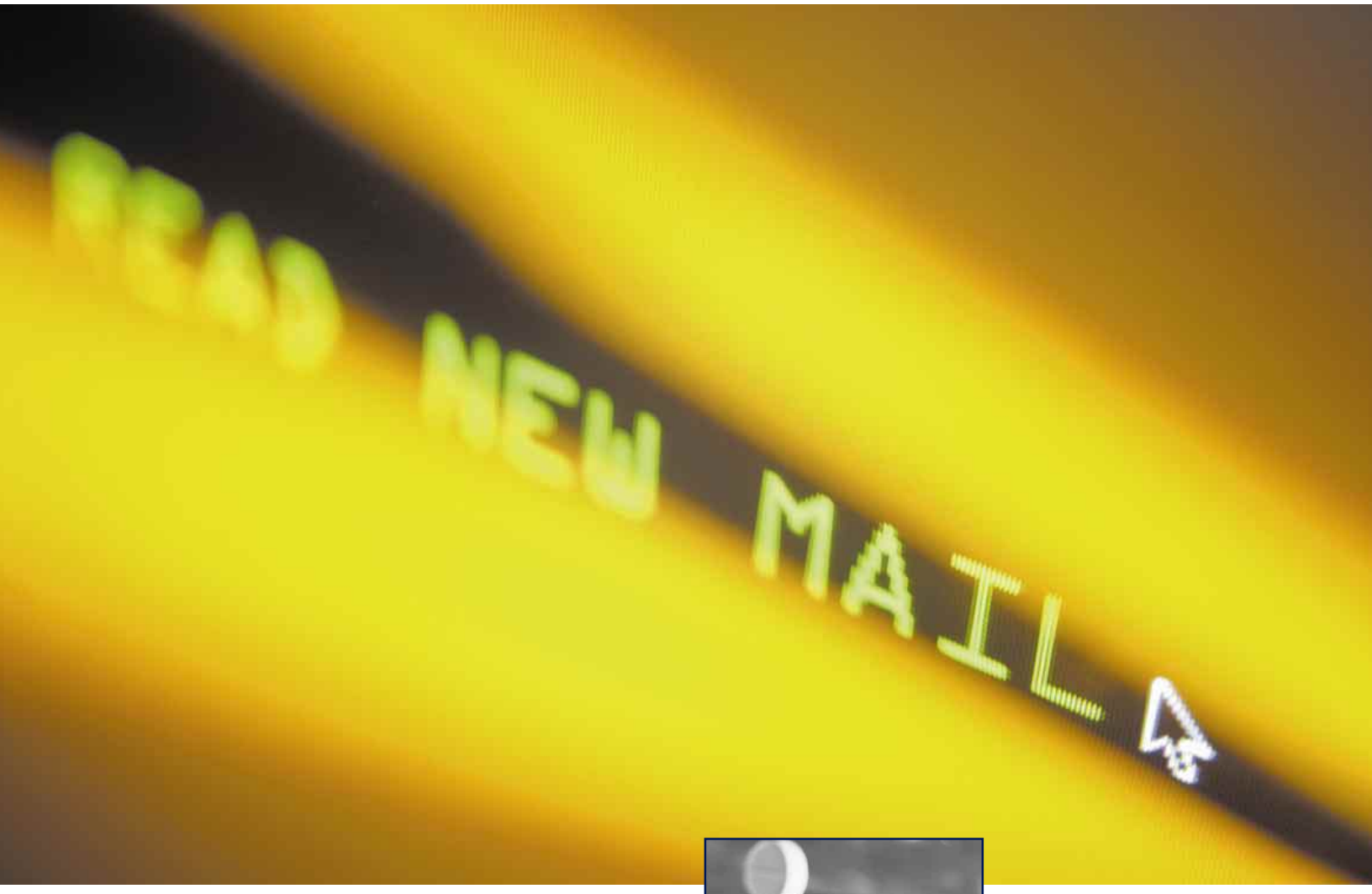
solutions



"In selecting a solution to run our business, we picked Compaq and Sweden-based OM Technology. Our selection was based on their proven track record that can address our need for capacity headroom to respond immediately to fast and changing markets, absolute 24 x 365 reliability, and the ever-present pressure to do so in the most cost-effective manner."

David Krell
CEO
International Securities Exchange

innovation



"(Compaq) enables us to innovate without restraint."

Paul Bilewicz
Senior Vice President, IT
GlaxoWellcome

"Our new Compaq system delivers sub-second response to users, even during peak periods."

Peter Flack
Director of Technology
Best Western

Now for operating systems. Do I have a choice? What if my needs change?

When it comes to operating system choice, the Compaq AlphaServer series offers you a choice of *Tru64 UNIX*, OpenVMS, Microsoft Windows NT, and Linux.

So you pick the operating system that's best for you, and we do the rest. Here's a bit more detail on your choices:

Tru64 UNIX — the world's best UNIX for enterprise applications.

Incredible power and scalability. High reliability, availability, and serviceability. Seamless Windows NT inter-operability. Superior Internet security and performance. Whatever your business demands for mission-critical applications, *Tru64 UNIX* delivers better than any other UNIX on the market — handling your most demanding challenges in the most complete 64-bit system in the industry.

Given its performance across a spectrum of businesses, it's no wonder *Tru64 UNIX* is the top choice in the world for demanding enterprise and Internet/Intranet applications — and the highest-rated UNIX by industry analysts. Plus, with more than 5,600 64-bit *Tru64 UNIX* applications available today on Alpha platforms — and with more coming virtually every day — you'll always have your choice of the best applications to meet your changing needs.

OpenVMS — a continued track record of success.

If you can't tolerate downtime — even for a moment — then OpenVMS is your answer. OpenVMS delivers only the highest levels of performance, scalability, availability, and flexibility. For more than 20 years, OpenVMS has been the hallmark of reliability — a proven operating system with a verifiable track record of success. And that's why OpenVMS is synonymous with continuous computing, 24 x 365.

And there's more. Meet the future of high-end server performance with OpenVMS Galaxy — a breakthrough in flexibility and cost-of-ownership benchmarks. Embracing large multi-CPU systems via Adaptive Partitioned Multiprocessing (APMP), the Compaq Galaxy Software Architecture for OpenVMS Alpha provides a flexible way to dynamically reconfigure and manage your system resources.

Windows NT from Microsoft — a powerhouse from a Hall of Fame provider.

If Windows NT factors into your future IT plans, rest assured that your Compaq AlphaServer series investment is well-protected. With an AlphaServer series, you won't have to buy a new server should you need to move to NT — all you'll need is an NT license, and you're ready to go.

And if it makes sense for you to employ a mix of operating systems, Compaq can provide the comprehensive collection of software, tools, middleware, services, and partners you'll need to develop and manage cross-platform applications — with our AllConnect™ for UNIX or Affinity™ for OpenVMS programs.

Linux — a great alternative that runs best on AlphaServers.

If you've decided Linux should be a part of your business, then we're here to provide the best platform in the industry. Compaq AlphaServers are ideally suited to run Linux — and run it faster and better than anyone else.

Many companies are looking to Linux to solve difficult computing problems in a user-friendly, stable environment. Moreover, some companies see Linux as a cost-effective way to begin building for a future that will include *Tru64 UNIX*.

When you consider that only the AlphaServer series can offer you such a full range of operating systems — and that we're one of the first to offer you Linux — it's clear that when you choose Compaq, you're choosing the market leader.

Can you give me the short version of Compaq AlphaServer advantages?

With the Compaq AlphaServer series, you can bank on rock-solid advantages that have put Alpha so far ahead of the pack, there's no point in looking back. Here are just a few:

Performance. You'll receive a price/performance ratio that's a cut above the rest, with superior performance by any industry standard that will only grow in your favor — ensuring that you have the horsepower you need to handle multiple applications and deliver more work in the real world.

High Availability. You can count on continuing advances in Compaq's clustering technology to ensure maximum uptime, regardless of your operating system — resulting in unsurpassed data integrity and availability.

Scalability. In addition to a smooth upgrade path, growth opportunities abound. The Compaq AlphaServer series gives you an unmatched ability to grow your system right along with your business — by making it easy to add more CPUs, more memory, and more disks.

Investment Protection. You can bank on continuous investment protection and buy with confidence. Compaq has already addressed the one constant in your server needs: change. With Alpha, you won't buy new servers and disrupt operations every time your business changes. And when you need new technology, your AlphaServer systems are designed to grow with you.

Management. As you'd expect, exceptional systems software from Compaq is par for the course — server management software is included with all of the AlphaServer series.

Tell me more about high availability.

More and more, today's business applications require maximum uptime, which means your systems are in constant operation. When they're done right, high-availability solutions give you a competitive advantage and are a proven driver of improved customer satisfaction.

Yet, too many businesses wait until a system goes down to plan their high-availability solution. But there's no need to wait for a disaster to employ a cost-effective, high-availability solution that will benefit your business.

In fact, there's no reason to wait to employ a high-availability clustering solution from Compaq.

First off, Compaq has more experience than anyone else — closing in on 20 years — when it comes to installing clustering solutions. We have been the recognized industry leader in clustering since our introduction of VMS VAX Clusters in 1981.

Today, OpenVMS continues to raise the bar — bringing unmatched experience and technologies from OpenVMS to bear on *Tru64 UNIX* and NT clustering solutions.

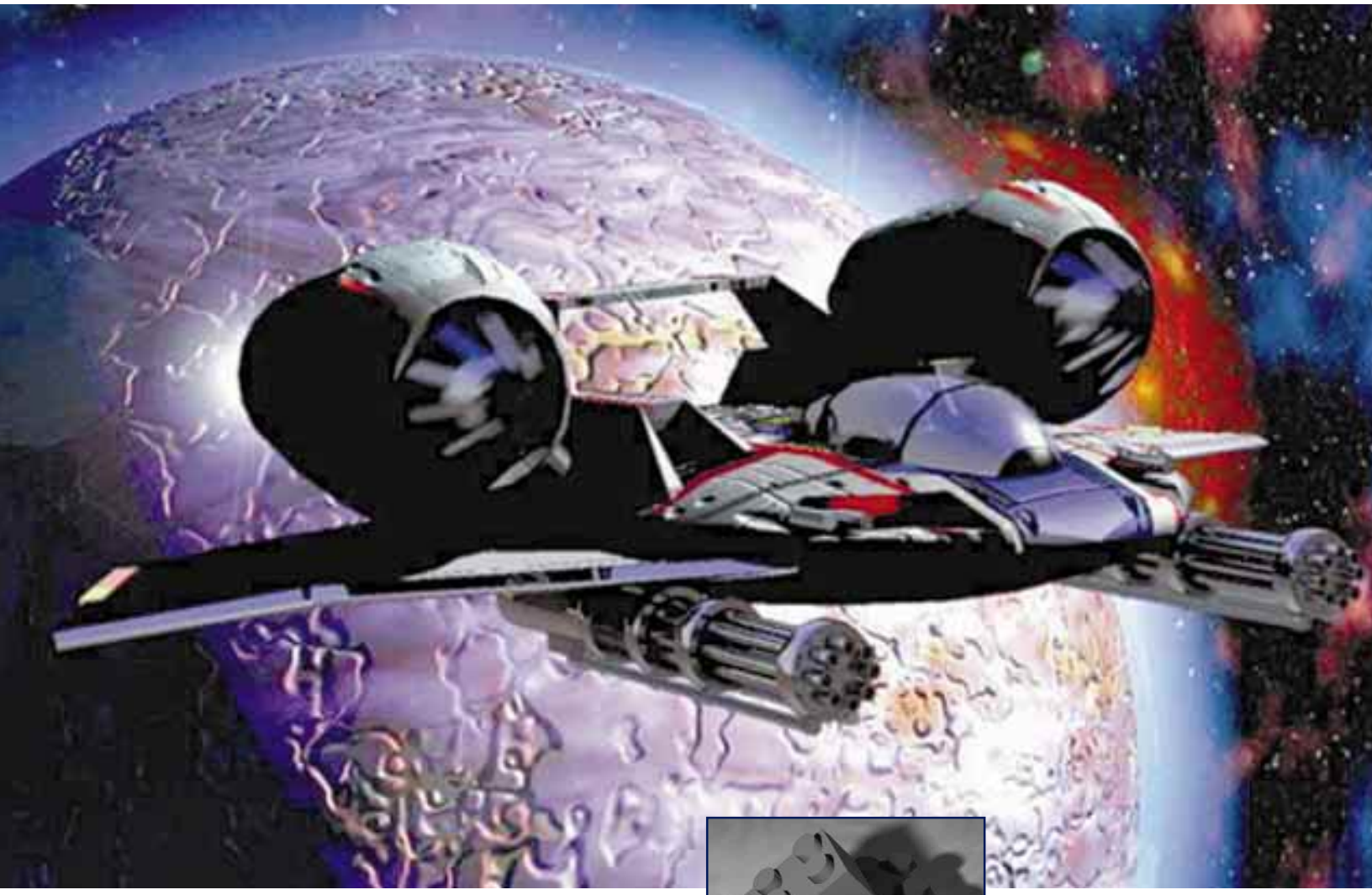
That's hard-won experience. And that's our edge. While others are struggling with how to do it, Compaq has been doing it for businesses just like yours — delivering outstanding results in more than 75,000 clustering installations worldwide.

What does maximum uptime really mean in a Compaq cluster solution? It means an application availability level of 99.999% for OpenVMS clustering solutions. It means a *Tru64 UNIX* level of 99.99%. And a Windows NT level of 99.9%.

Altogether, it means Compaq sets the industry standard with an availability level of 99.999%, and the fastest failover in the industry. Simply put, we're using technology to save you time and money — so you can stay focused on growing your business, instead of worrying about your servers.

From affordable, pre-packaged Compaq *Ready to Go* clusters that you can roll out and plug in to 24 x 365 availability solutions backed by our superior worldwide services — Compaq cluster solutions bring bet-your-business availability to your mission-critical applications.

scalability



"(Compaq) builds systems to help us grow... it has the solutions we need."

Jan Friis
IT Product Manager
The LEGO Group

service

"Pétromont needed a solutions partner that could streamline our SAP implementation, and Compaq has proven to us that they have the expertise to deliver. Compaq was able to provide hardware for our multi-platform requirements and deliver services that simplified our SAP deployment."

Norman McMurray
Corporate Manager, Information Systems
Pétromont, a petrochemical company in Montreal, Canada that is Compaq's 5,000th SAP/R3 Implementation

"We began with clustered VAX systems, and now have a multi-site OpenVMS cluster of 10 AlphaServer 4100 systems. The performance is always there..."

Rob Palatnick
Managing Director of Information Technology
Government Securities Clearing Corporation

Is the Compaq AlphaServer series Year 2000 ready?

Yes. Absolutely. No one is working harder to meet the Y2K challenge than Compaq. Our goal is to ensure your computing environment runs smoothly during the millennium transition, and that your investments in AlphaServer are protected long into the 21st century.

In addition to Year 2000 ready hardware, software, upgrade programs, and tools, Compaq now offers services to assist you in preparing your business applications for smooth processing on AlphaServer platforms. Whenever and wherever you need us, Compaq will be there to ensure that Y2K issues are a part of history — and not part of your company's future.

Why is now the time to bring Compaq AlphaServers into my business?

In its AlphaServer series, Compaq provides an unprecedented range of choices — allowing you to select the system that best fits your unique business model. When you add up all the advantages, it becomes increasingly clear that Compaq is your best choice when you need a solution you can grow with — and grow into — no matter what business challenge you face.

Moreover, your solution may well need to take Windows NT inter-operability into account. It's quite likely NT growth will demand that you're ready for cutting-edge applications — while at the same time, you'll need to continue to trust your mission-critical applications to other servers. Again, when it comes to melding Windows NT with your current environment, you can count on Compaq to deliver the solutions that will preserve your investments and help you take advantage of new opportunities.

And with the added power of the new Alpha 21264 processor — tried, true, and ready for prime time — isn't now the right time to bring the 64-bit AlphaServer series advantage to your business?

Will you stand by me after the sale?

Compaq and its partners offer the broadest range of multi-vendor support services in the industry. For training, consulting, network integration, software support, comprehensive system maintenance, and guaranteed uptime services, Compaq — with its partners — is the single-source solution to meet your technology needs.

How can I get more information about the AlphaServer advantage?

To learn more about the Compaq AlphaServer series:

- → *Visit our AlphaServer Web site at www.compaq.com/alphaserver*
- → *Call us at 1-800-344-4825 via a touch-tone phone in the U.S. and Canada*
- → *Call 1-978-506-3777 from other countries*
- → *Call your local reseller*

Thank you for your interest in Compaq.

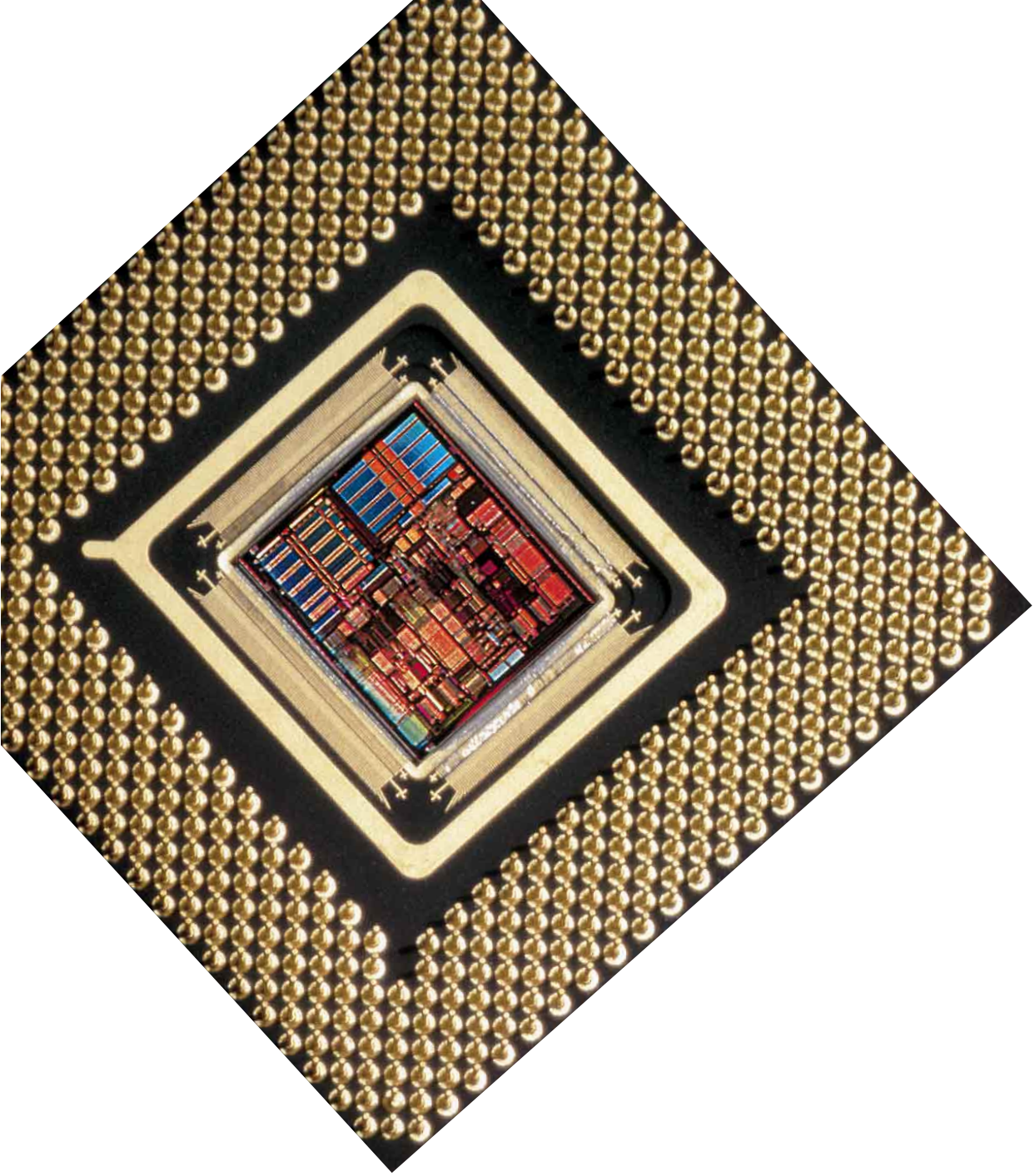
Compaq, the Compaq logo, and Tru64 are copyrighted and are trademarks of Compaq Computer Corporation. Better answers is a service mark of Compaq Computer Corporation. *NonStop* is a registered trademark of Compaq Computer Corporation. AlphaServer, AlphaPowered, the AlphaPowered logo, ActiveAnswers, OpenVMS, StorageWorks, and VLM64 are registered in the U.S. Patent and Trademark Office. UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company, Ltd.

Linux is a registered trademark of Linus Torvalds in several countries. Netscape is a registered trademark of Netscape Communications Corporation in the United States and other countries. SAP R/3 is a registered trademark of SAP AG in Walldorf. Baan is a registered trademark and property of Baan Company. Oracle and Oracle7 are registered trademarks of Oracle Corporation. PeopleSoft is a trademark of PeopleSoft, Inc. Sybase is a registered trademark of Sybase, Inc. Informix is a registered trademark of Informix Corporation. IBM and SP2 are registered trademarks of International Business Machines Corporation. Toys "R" Us is a registered trademark of Toys "R" Us, Inc. Amazon.com is a registered trademark of Amazon.com, Inc. in the United States and other countries. Lucent Technologies and the Lucent Technologies logo are trademarks of Lucent Technologies, Inc.

MFG/PRO is a registered trademark, and QAD is a trademark, of QAD, Inc. American Stock Exchange and AMEX are registered service marks of the American Stock Exchange, Inc. Microsoft is a registered trademark of Microsoft Corporation, and Windows NT is a trademark of Microsoft Corporation. Lycos is a registered trademark of Carnegie Mellon University. LEGO is a registered trademark of the LEGO Group. The Best Western International, Inc. logo and the name Best Western are registered trademarks of Best Western International, Inc. GlaxoWellcome is a research-based company whose people are committed to fighting disease by bringing innovative medicines and services to patients throughout the world, and to the healthcare providers who serve them. Other products and company names mentioned herein may be trademarks and/or service marks of their respective owners.

Compaq Computer Corporation believes the information in this publication is accurate as of its publication date. Such information is subject to change without notice. Compaq is not responsible for any inadvertent errors.

Compaq conducts its business in a manner that conserves the environment and protects the safety and health of its employees, customers, and the community.



www.compaq.com/alphaserver

COMPAQ
Better answers

www.compaq.com/alphaserver

Printed in U.S.A. EA-B9915-10 Rel.#91/99 05 72 20.0 Copyright © 1999 Compaq Computer Corporation. All Rights Reserved.