Linux services
Helping you demand more from your Linux platform
“Increasingly, the financial services industry is deploying Linux systems because of the price/performance benefits...the ease of porting applications...and lack of vendor lock-in of a Linux situation.”*

Stacey Quandt,
Research Analyst,
Giga Information Group

No longer relegated to the background as a Web server operating system, Linux has become a strategic platform with advantages for every type of enterprise. Linux’s high-availability, reliability, and superb cost/performance have made it the fastest growing operating system on the market, and now millions of customers worldwide are reaping the technical and financial benefits of running their businesses on Linux. Nobody knows better than HP why you chose Linux as your platform of choice, and we understand that your Linux installation and open-source applications require the high-quality support and services customers have come to expect from HP.

Navigating the sometimes unpredictable world of computing based on open source software (OSS) can be tricky, especially in today’s complex, heterogeneous IT environments. That’s why HP is offering an extensive portfolio of Linux services to help you get more out of your Linux environment in every area—from data-center infrastructure design to porting and migration consulting to education and training.

Together, Linux and HP can enable your adaptive enterprise, combining the advantages of an open source platform, with world-class service from HP to bring you:

- Lower total cost of ownership
- Reduced complexity of IT infrastructure
- Enhanced productivity for your entire IT environment
- Improved business performance
- Minimized risk associated with change
- Total solution lifecycle services and support

With a more flexible, cost-effective, and efficient Linux implementation, your enterprise can demand more—more accountability, more agility, and a better return on IT.

*“Reuters Market Data System on Linux can provide efficiency to reduce IT spending,” February 2003
Benefits at a glance

**Accountability**
Passing the buck is easy when your systems are based on Linux and other open source technologies. When HP works with your enterprise, we take full responsibility for our products and services, offering you the peace of mind that comes with knowing the buck stops with us.

**Agility**
Our complete, flexible solutions to implementing a Linux-based adaptive infrastructure in your environment—along with the tremendous flexibility you get from Linux—will bring your business the highest flexibility and agility.

**Better return on IT**
The relatively low cost of Linux and open source software, combined with Linux’s world-class scalability and reliability, makes this platform the ideal choice to improve the bottom line today and to lay a strong technological foundation for the future.

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**Industry-leading Linux services from a leader in the OSS community**

**High-performance technical computing services**
HP is a leading provider of high-performance technical computing (HPTC) services worldwide and provides performance computing services across the entire spectrum, from initial planning to migration and transition to systems maintenance and optimization.

HP provides senior-level expertise in systems integration and administration, applications migration and optimization, systems architecture, and customer education, as well as implementation program management.

HP HPTC consulting and integration services (C&I) result in the quicker integration of technology into your computing environment, greater systems reliability, efficient application migration, peak application performance, and enhanced systems utilization.

- Working closely with HP engineers and industry partners, including Linux Network, Platform Computing, Scyll Computing, Sistina Software, and Scali, HP HPTC C&I offers cluster solutions to meet the most complex customer needs.

- HPTC C&I provides consulting for HP grid computing products, such as the Utility Data Center (UDC). C&I also partners with Platform Computing and Avaki to integrate their grid software into HP solutions.

- HPTC C&I offers customer training on systems administration of Linux, HP-UX, and Tru64 UNIX® clusters. Similar training is provided for applications migration, development, and optimization.

**IT consolidation services**
IT consolidation is a key step toward minimizing complexity and getting the best return on your investment by increasing the efficiency of staff, processes, and systems. No one has more experience than HP in helping companies refine their IT infrastructures and consolidate on Linux. HP enables consolidation in four key areas:

- **Co-location** brings your widely distributed systems into fewer, centralized locations, allowing you to save on management and operation costs while increasing security, availability, and system usage.

- **Hardware and data integration** reduces the volume of servers and centralizes storage, offering improved performance and application availability while lowering overall operating costs.
• **Application integration** streamlines resources, standardizes systems and applications, and increases performance while reducing total cost of ownership by running applications on fewer servers that integrate both databases and applications.

• **IT utility computing** is the ultimate in adaptive infrastructures, with components that self-configure in the most economic way. HP UDC, for example, dynamically allocates resources so you can dramatically increase your server and storage utilization.

We’ll work with your teams to create an investment justification, draw up an architectural blueprint, and develop a detailed custom solution for you. Our consultants will deliver a complete, tested infrastructure implementation, including application and data migration.

**Data center infrastructure services**
HP Services professionals have the focus, experience, and perspective to help you gain solid control of business IT. Working together with your IT executives, HP Services experts will develop tailored solutions that support specific functions, as well as departmental or enterprise-wide IT needs—including management of your servers and storage, Web services, network operations, data centers, and security. Our proven expertise helps enhance your infrastructure’s ability to deliver against your business goals—while allowing you to focus on the bigger business picture.

Our services can help customers transition to a new server operating environment—or to get improved performance, service levels, and flexibility of business-critical applications in an existing environment.

**HP Utility Data Center**
Enterprises are trying to reduce IT infrastructure costs while simultaneously trying to make their infrastructure sufficiently responsive to keep up with the rapid pace of business change. HP answers this challenge with an integral, programmable solution—HP UDC. The HP UDC with Utility Controller Software dramatically reduces operating costs by creating and running virtual IT environments as highly automated services. Simplified delivery of those services achieves peak asset utilization and reduces staffing loads.

The UDC solution fundamentally changes the way IT organizations look at data centers and infrastructure in general. UDC will bring the operational efficiencies, service quality, and agility to the IT organization that other vertical industries, such as manufacturing and telecom, have enjoyed for years. UDC helps IT provide infrastructure as a true service to business, with fast provisioning times, virtually continuous service assurance, and usage-based billing.
HP and Linux let you demand more—more accountability, more agility, and a better return on IT.

**HP IT Service Management**

Poor service delivery is at least as much the result of poorly designed processes as it is a technology issue. Best-of-breed HP IT Service Management (ITSM) is built upon an integration of people, processes, and technology that enables an IT department to operate in an efficient and effective manner to meet client business needs.

Based on years of experience, the HP ITSM Reference Model, with its supporting process guides, has proven to be an invaluable tool, both for HP internally and for customers around the globe. The HP ITSM Reference Model functions as an easy-to-use roadmap for customers seeking to transform their IT organization from a traditional, IT-centric technology provider to a reliable, agile, low-cost IT service provider. Combined with HP ITSM expertise and HP OpenView technology—a portfolio of multi-platform management solutions—there is no better end-to-end service management solution in the industry.

**Porting and migration**

Today’s customers are looking for a vendor that possesses depth and breadth as well as one that will take full responsibility for providing end-to-end solutions on UNIX, Linux, and Windows®. No one fits this bill like HP.

HP Services has over 1,400 software engineers who have performed more than 500 major custom application engagements, in addition to doing 15% of HP’s own software research and development projects. HP Services has a wide range of offerings such as custom “green field” application development, application consolidation, application porting and migration, enterprise application integration, and Web enablement of legacy applications. HP is one of only 69 organizations in the world to have achieved Level 5 of the Capability Maturity Model assessment offered by the Carnegie Mellon Software Engineering Institute, a leading authority in software-engineering best practices.

Whether you want to move from UNIX to Linux—or to another HP platform; re-engineer your existing applications; or rewrite your software completely, HP is the ideal partner to help you reach your migration goals.
HP open source expertise

For customers considering Linux or other open source software for their businesses, HP’s extensive open source experience can help you develop strategies for implementing these technologies to make sure you get the best possible return on your investment.

The HP open source experience includes extensive knowledge of the following:

• **OSS environment**: rules of engagement, management approval processes and guidelines, hiring people from the OSS community, company participation in OSS projects, etc.

• **Licensing**: corporate considerations from both intellectual property and commercial licensing perspectives

• **Technical and legal considerations**: third-party coexistence, proprietary licensing, and marketing and sales issues

• **Export and ethical considerations**: the makeup of the OSS community (who its members are, how it began, its values, etc.) to help with best practices for engagement and to understand the ramifications of various corporate policies that are of interest to the OSS community

We bring this unique knowledge of open source software to all of our Linux services. Let HP and its long history of engaging with and within the OSS community work for your enterprise.

HP Linux services—success proven in the field

You don’t have to take our word for what the HP portfolio of Linux services can do for your enterprise. Organizations around the globe have already seen substantial improvements to efficiency and business processes with HP’s Linux expertise, and we can do the same for you.

Pacific Northwest National Laboratory (PNNL), a Department of Energy research facility located in Richland, Washington, asked several technology companies to propose a solution for developing and deploying an operating environment that would suit PNNL’s need to “quickly compute very complex, very long-running simulations” that required ultra-high reliability and scalability across the entire system. A 15-month formal procurement process led to PNNL’s selection of HP to deploy the world’s fastest Linux-based supercomputer running on the Intel® Itanium® 2 microarchitecture. The result? PNNL is using fewer, faster processors to solve the same problems as before. And they can perform much larger calculations that solve complex systems of equations much more accurately, producing more reliable solutions.
With 5,000 Linux specialists backed by 60,000 experienced IT professionals, HP has what it takes to guide you through any Linux deployment, migration, consolidation, or optimization project.

HP and Linux—enabling the Adaptive Enterprise together
For years, HP has been a leading contributor to the open-source community and a major supporter and developer of Linux-based technologies. With 5,000 Linux specialists backed by 60,000 experienced IT professionals, HP has what it takes to guide you through any Linux deployment, migration, consolidation, or optimization project. And with complete software, hardware, support, and services offerings, HP is your one-stop shop for Linux technologies. End-to-end Linux solutions from HP reach across all areas of enterprise computing, bringing you the following benefits:

• Complete, flexible solutions to implement a Linux-based adaptive infrastructure for greater business agility
• Proven global services for Linux-based computing
• Linux solutions that are managed, secure, and highly available
• Industry-leading enterprise management and availability software for Linux, including HP OpenView, Servicecontrol Manager, and Serviceguard
• Broad partnerships with leading ISVs to provide total application availability on Linux

The same commitment to Linux that has made HP the #1 provider of Linux-based servers extends to all of HP’s Linux offerings. Take advantage of this powerful synergy and let HP Services help you demand more from your Linux systems.

For more information
To take advantage of these comprehensive service offerings and to learn more about HP’s Linux services, please visit our Web site at www.hp.com/go/linux.