

HP-UX 11i v3 Operating Environments (OEs)

Simplify UNIX® operations with the right package

Data sheet

Introduction

The UNIX® operating system is more strategic today than ever before. Data centers of all sizes depend on UNIX for the industry's range of workloads. HP-UX 11i—the HP strategic version of UNIX for the HP Integrity server family—delivers standards-based UNIX integrated with more than 25 years of HP innovation to amplify your mission-critical advantage in the areas of virtualization, high availability, and simplified management.

HP-UX 11i Operating Environments (OEs) are designed to simplify your UNIX experience. HP integrates a complete UNIX software stack—shipped as OE packages and designed for today's fast-paced deployment and high-value solutions.

HP Labs integrates and tests the HP-UX OEs so you can rest easy knowing that your UNIX environment is complete and built to work together. HP-UX OEs decrease the need to source the required pieces of a mission-critical UNIX stack. You do not have to purchase and integrate the software yourself, or obtain costly external services and manage the

additional software and its support separately. From ordering your UNIX product to its contract management, your experience with HP is as simplified as possible. You can order OEs with a single part number or you can order software support that covers all the included software with a single part number—with your choice of response levels and coverage times.

HP-UX is available in traditional DVD media kits, which are downloadable worldwide¹ via e-Delivery or can be factory installed on new HP Integrity servers (see Figure 1). e-Delivery gives you the ability to download HP-UX OEs from the HP secure distribution server to your local site, where you can burn DVDs and reduce the time for obtaining the latest OEs onsite from days to hours. Using e-Delivery also allows you to join us in our efforts to reduce environmental impact while increasing your flexibility to access licensed copies of HP-UX.

¹ e-Delivery is not available in China and Japan at this time. For related news about e-Delivery, visit www.hp.com/go/edelivery

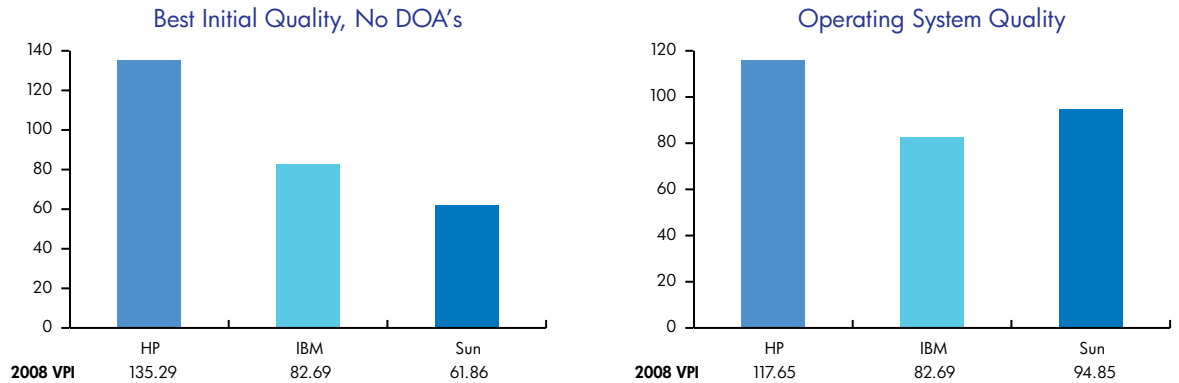
Figure 1: A single part number delivers a full UNIX environment—receive your HP-UX 11i OEs through electronic delivery, a physical media kit, or as a factory-installed product on HP Integrity servers.



Choose the OEs that best suit your needs

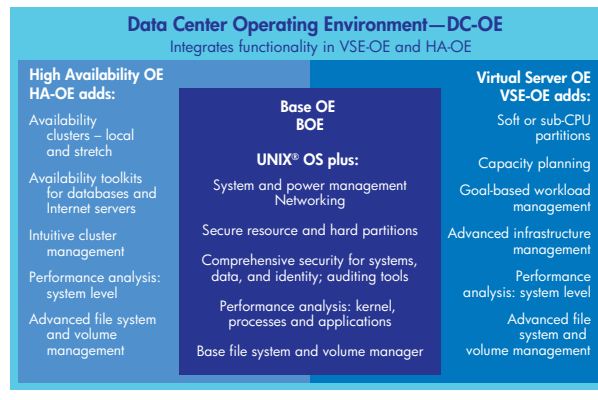
Your choice among the four HP-UX 11i v3 OEs options depends on how critical your solution is and what your flexibility requirements are. Common to all four OEs is HP-UX quality that translates into reliability for your solutions—from the smallest project to large-scale data center deployments (see Figure 2).

Figure 2: Enterprise UNIX users voted HP number 1 in Best Initial Quality—No DOA's and best Operating System Quality for UNIX systems. Charts used with permission of Gabriel Consulting Group. Source: "Unix: Alive, Well, and Strategic", Gabriel Consulting Group, October 2009. (Document is available in 10 languages on www.hp.com/go/gabrielonunix)



HP-UX 11i v3 OEs run on all members of the Integrity server family, from server blades, to entry-class, midrange, and Superdome systems. Figure 3 provides a high-level functional description of what is included with each OE.

Figure 3: HP-UX 11i v3: high-level OE functionality



HP-UX 11i v3 Base OE (BOE)—comprehensive security and system management

The HP-UX 11i v3 BOE delivers the entire UNIX operating system plus comprehensive, integrated security for systems, data, and identity, as well as secure resource and hard partitions. The BOE includes full Insight Control functionality with power management, health check, and deployment tools. It also provides full performance analysis tools for kernel processes and applications, as well as base file system and volume management.

HP-UX 11i v3 Virtualization Server OE (VSE-OE)—complete virtualized UNIX

In addition to what is in the BOE, HP-UX 11i v3 VSE-OE integrates advanced file system and volume

management with system-level performance analysis, plus the full complement of HP-UX virtualization software provided through the Insight Dynamics—VSE suite. This suite includes capabilities for soft or sub-CPU partitioning, capacity planning, goal-based workload management, automated infrastructure provisioning, and advanced physical and virtual infrastructure management.

HP-UX 11i v3 High Availability OE (HA-OE)—complete mission-critical UNIX

In addition to what is in the BOE, HP-UX 11i v3 HA-OE integrates advanced file system and volume management with system-level performance analysis, plus HP Serviceguard, the number 1 high-availability software for UNIX.² HP Serviceguard delivers continuous service availability and supports both local and stretch clusters for cost-effective disaster recovery. Additionally, tested and proven Serviceguard toolkits enable you to protect key databases and Internet servers in minutes while also easily managing it all with intuitive GUI-based cluster management software.

HP-UX 11i v3 Data Center OE (DC-OE)—the premier virtualized mission-critical UNIX

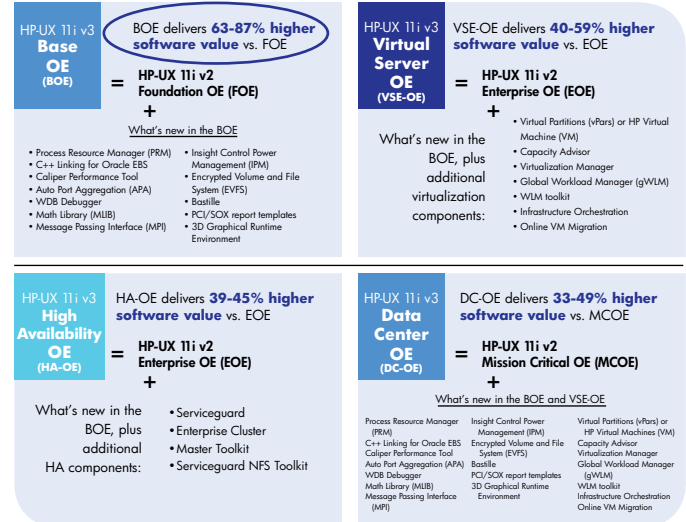
HP-UX 11i v3 DC-OE delivers the complete set of HP-UX mission-critical UNIX software in a single package, combining the value in the HA-OE and VSE-OE—both of which include the BOE software. The DC-OE is the ideal environment for resiliency and optimization, leveraging the tight integration of HP advanced infrastructure management software for high availability, partitions, workload management, and performance optimization.

² IDC Vendor Share Reports for Availability and Clustering Solutions, 2001–2008

Figure 4: HP-UX 11i v3 Operating Environments—key software

Data Center Operating Environment (DC-OE)		
High Availability OE (HA-OE)	Base OE (BOE)	Virtual Server OE (VSE-OE)
Base OE plus: Serviceguard local and stretch clusters NFS Toolkit Enterprise Cluster Master Toolkit with integration wizards for: • Oracle DB • IBM DB2 • MySQL Server • Sybase ASE • CIFS/9000 • Tomcat • Apache HA monitors MirrorDisk/UX OnlineJFS GlancePlus Pak	Base OE (BOE) HP-UX 11i operating system plus: Oracle C++ linker Message passing interface EMS framework I/O drivers CDE Internet Express HP-UX Apache Web server HP-UX Tomcat Firefox Web browser Mozilla Web browser HP-UX Web Server Suite Java™ jconfig, HPJmeter Java RTE, JDK, JPI Languages Caliper with ktracer Libc enhancements 3D graphics Math libraries CIFS client and server NFS Base Veritas File System Logical Volume Manager Base Veritas Volume Manager	Base OE plus: Insight Dynamics — VSE which delivers: • gWLM or WLM • Capacity Advisor • Integrity Virtual Machines (VM) or Virtual Partitions (vPars) • Online VM Migration • Infrastructure Orchestration • Virtualization Manager HA monitors MirrorDisk/UX OnlineJFS GlancePlus Pak

Figure 5: HP-UX 11i v3 OEs include everything in the HP-UX 11i v2 OEs, plus additional high-value software



Save up to 50 percent with HP-UX OEs Get more software value with HP-UX 11i v3 OEs

When it comes to buying HP-UX 11i software, our customers often ask, “Which is the better deal: buying a higher-level OE (HA-OE, VSE-OE, or DC-OE), or buying the BOE, plus the individual layered software? How much will the OE save me in software license and support costs?”

Our simple answer: Higher-level OEs reduce software costs by up to 50 percent with HP-UX 11i v3 for the new HP Integrity server family. Our OEs include the most popular HP-UX software, which, when deployed together, can produce the highest return for mission-critical UNIX.³

Figure 4 provides a detailed list of major software that ship with each OE, as of the March 2010 update release for HP-UX 11i v3.

The following additional software is available for any system licensed with any HP-UX 11i OE:

- For C/C++ developers:
 - HP C/aC++ Developer’s Bundle
- For greater solution integration and protection:
 - HP Serviceguard Extension for SAP
 - HP Serviceguard Extension for RAC
 - HP Serviceguard Storage Management Suite
 - HP Serviceguard Metrocluster and Continentalclusters
- For expanded virtualization:
 - Virtual Connect Enterprise Manager (VCEM)
- For flexible payment—pay for only what you use:
 - HP Instant Capacity
 - HP Pay per use

HP-UX 11i v3 OEs deliver up to 87 percent⁴ more software value than comparable HP-UX 11i v2 OEs—and an even greater increase compared to what is shipped with HP-UX 11i v1.

Figure 5 indicates what you’ll find in HP-UX 11i v3 OEs, over and above what is shipped with the HP-UX 11i v2 OEs—Foundation, Enterprise, and Mission Critical OEs.

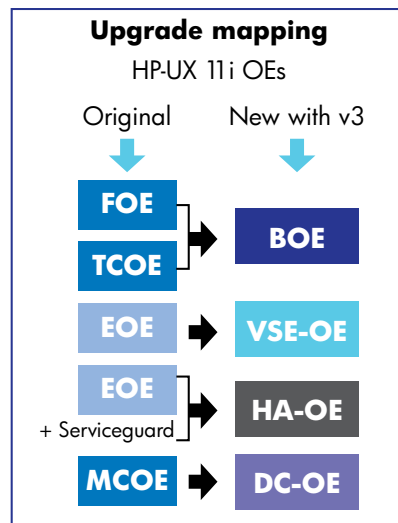
HP provides complete software investment protection for your HP-UX 11i OEs, with “rights to new versions”—a benefit provided with your HP-UX software support contract. When you upgrade your server environment, either via the purchase of replacement servers or through server consolidation, you will receive a 100 percent credit for your previous order of older OEs when you trade them in for similar OEs, or for higher-level OEs. Figure 6 illustrates the common trade-in paths.

Here’s another way to save—you can now stop paying support costs for software that you purchased stand-alone with older HP-UX versions, if the software is now included in the v3 OEs. Your v3 OE support contract covers all included software. For instance, HP-UX 11i v2 Enterprise OE plus stand-alone Serviceguard upgrades to the v3 HA-OE. Serviceguard is covered in the bundle—so you can turn off the stand-alone support payment.

³ “The Business Value of HP-UX 11i v3: HP-UX 11i v3 on Integrity Servers vs. IBM AIX 6.1 on IBM POWER Systems,” Alinean, February 2010 and The Business Value of HP-UX 11i v3 on Integrity Servers vs. Sun Solaris 10 on Sun Servers (Alinean’s financial assessment of HP-UX 11i business value vs. Solaris, April 2009)

⁴ HP, in a comparison between v3 and v2 OEs, calculating the sum of line item prices of software formerly sold separately, but now included in the v3 OEs—taken as a percent of the original OEs. The charts in Figure 5 illustrate the incremental software that adds up to the percent higher software value.

Figure 6: Trade-in mapping showing 100 percent trade-in credit equivalents



Double your HP-UX value on new Integrity servers with per-socket licensing

Double the value of HP-UX when you upgrade your HP Integrity or HP 9000 system to the latest HP Integrity systems based on the Intel® Itanium® 9300 Processor. For new systems running the March 2010 update release of HP-UX 11i v3 or later, licenses are sold on a per-socket basis, versus the per-core basis of all prior servers.

Upgrading—a free benefit to support contract customers—pays dividends. Applying the HP concept of “a socket is a socket,” you can transition your HP-UX licenses from an old two-core-per-socket server to a four-core-per-socket server—and cover twice as many cores.

To understand how HP Integrity systems and HP-UX 11i OEs provide an ideal combination for today’s dynamic environments, visit www.hp.com/go/hpux11ioe

HP Services

HP service solutions, built on the Solution Lifecycle (SLC) process, offer consistent quality and service levels for the Integrity NonStop servers. The SLC process helps to achieve rapid productivity and increased availability by examining specific needs at each of five distinct phases (Plan, Design, Integrate, Install, and Manage) and then designing solutions based upon those needs. We offer three different service solutions designed to meet customer needs.

HP Critical Service Solution

- **Startup and Deployment Services:** Build the solution to your exact specifications, complete the installation, and make the solution application ready
- **Assessment and Design Services:** Define requirements and translate your business and technical needs into a solution that melds the necessary hardware and software
- **Deployment Management Services:** Up-front project coordination from HP
- **Education Services:** Training curricula relevant to needs and existing expertise based upon a needs analysis
- **HP Critical Services:** Comprehensive, ongoing support designed to help reduce the business impact of downtime on business-critical applications

HP Proactive Service Solution

- **Startup and Deployment Services**
- **HP Proactive 24 Service:** Integrated hardware and software support, including proactive and reactive services to improve stability and availability throughout your IT environment

HP Foundation Service Solution

- **Startup and Deployment Services**
- **HP Proactive Plus 24 Service:** Integrated hardware and software support services designed specifically for your technology

Whether you look at it as doubling the horsepower (in cores) for the same HP-UX licenses or as stretching your HP-UX licenses to cover twice as many cores, that’s a transition that pays dividends in added performance for no additional software cost. Consider your current HP-UX needs, and ask your sales representative to put the savings in motion, in the form of an upgrade to HP-UX 11i v3.

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