



# HP-UX 11i v3

Simplified & integrated business-critical UNIX



Technology for better business outcomes

# HP-UX 11i – simplified & integrated business-critical UNIX<sup>®</sup>

- Introducing HP-UX 11i v3 update 2
- Introducing new HP-UX 11i v3 OEs
- Summary

**HP-~~ux~~11i v3**

# Update 2 – HP-UX 11i v3 enhanced (1)

Legendary dependability with continuous improvement

- 3<sup>rd</sup> release of HP-UX 11i v3, shipping April 2008
- Up to 100% speed-up in network file system performance
- Mass storage stack:
  - New performance and usability options to manage multi-pathed disks and disk arrays
- Drivers
  - USB 2.0 - significantly decreases the time for installs from local USB devices
  - Fibre Channel host bus adapter



Continued v3  
performance  
acceleration

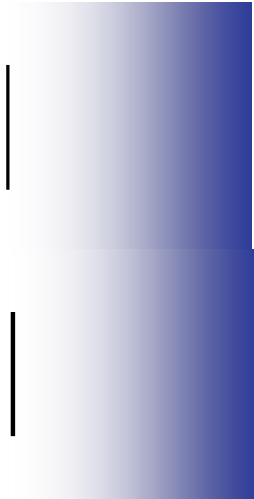
Higher  
performance  
options

Improved user productivity

# Update 2 – HP-UX 11i v3 enhanced (2)


Legendary dependability with continuous improvement

- Dynamic Root Disk (DRD):
  - New drd status command
  - Now support root volumes managed by VxVM Release 4.1
- vPars support all HP-UX 11i versions
  - v1, v2, and v3 – in vPars within an nPartition, on both HP 9000 and HP Integrity servers
- EMSWeb, formerly 'Event Monitoring Service'
  - now available as EMSWeb on the HP System Management Homepage (HP SMH); both Web-based GUI and TUI
  - Integrates with SIM 5.2 to enable setup of all the servers you want to manage from a SIM console



Broader access to simplified system patching

Easier transition to latest release



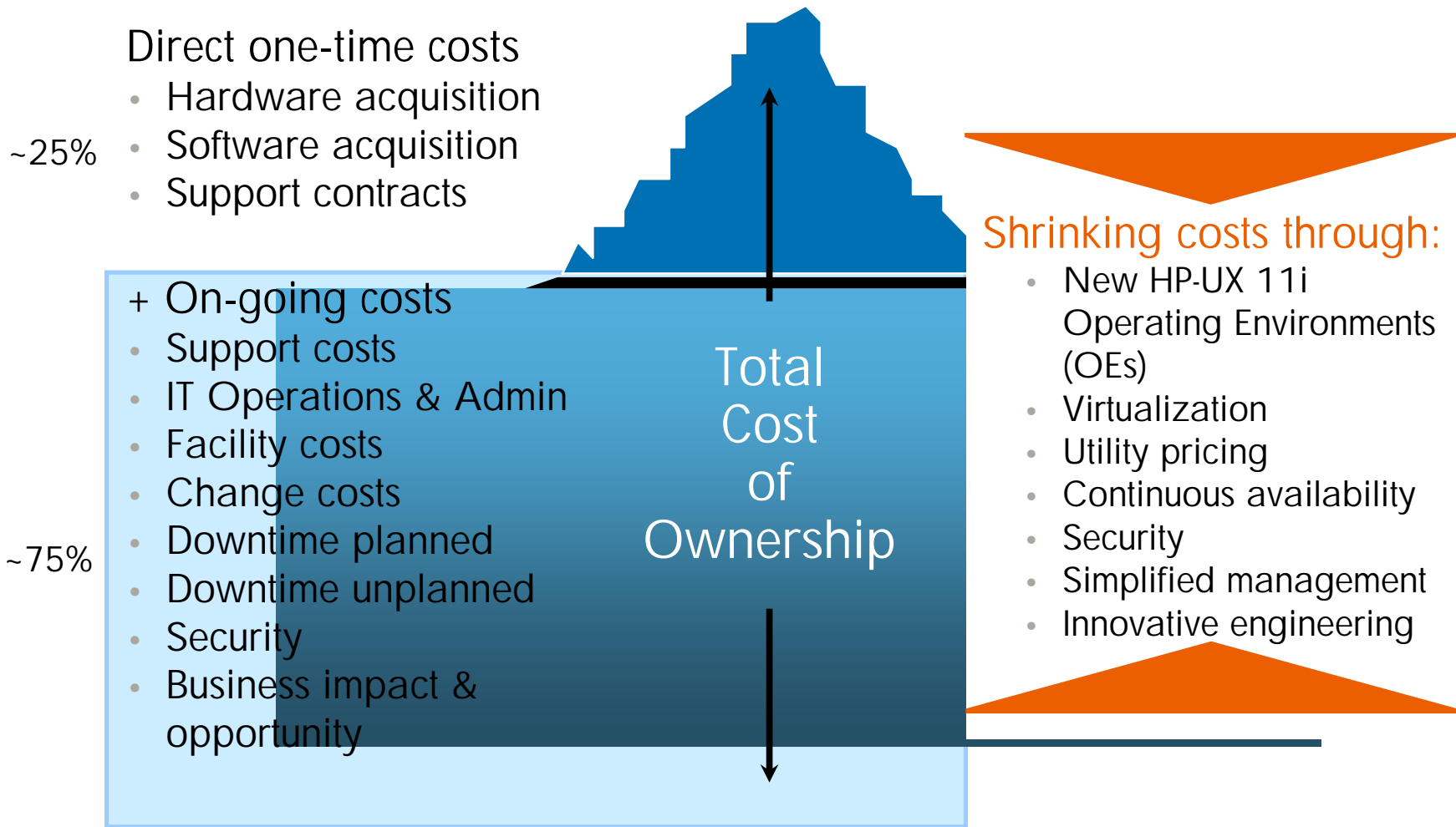
Further simplified system management

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Lower operations costs

# HP-UX 11i drives down TCO

Freeing your resources for innovation



# HP engineers UNIX integration for your efficiency & effectiveness: HP-UX 11i OE value

HP integrates, tests & delivers the software stack as a whole, to enable...

Simplified acquisition

Simplified installation

Less cost, risk & worry -  
Faster time-to-solution

Savings versus sum-of-the-pieces

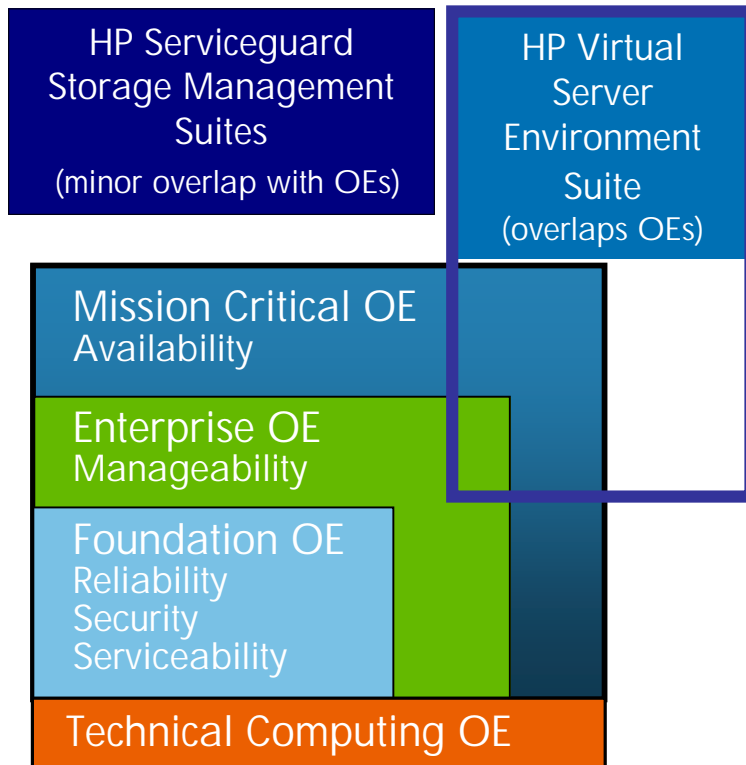
Simplified updates over time

Simplified support contracts

Accelerated time to deployment

# HP-UX 11i v3 Operating Environments: improved packaging

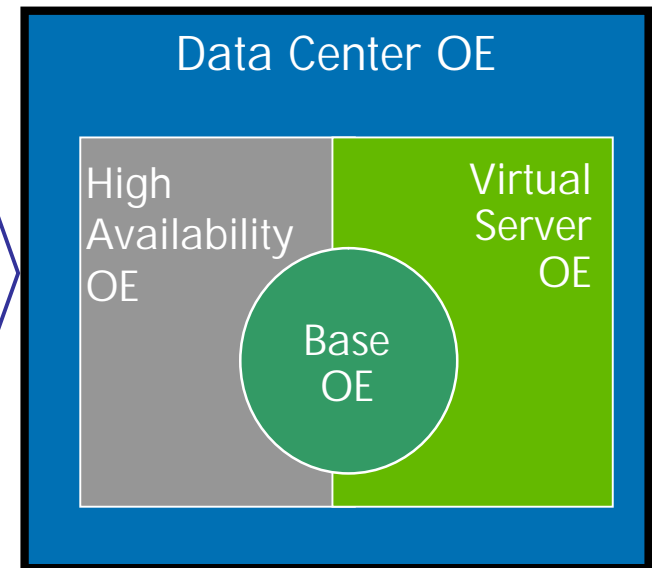
Original OEs –  
all HP-UX 11i versions



- Additional popular software -
- Auto Port Aggregator (APA)
  - C++ linking for Oracle EBS

New OEs –  
HP-UX 11i v3 only,  
for both Integrity &  
HP 9000 systems

- 
- Match today's usage
  - Simpler
  - More complete
  - Ahead of competition



Shipping April 2008

**HP-ux11i v3**

Update 2

# New HP-UX 11i v3 Operating Environments

## Data Center Operating Environment (DC-OE)\*

HA-OE, VSE-OE, BOE

### High Availability OE (HA-OE)\*

- Base OE
- MirrorDisk/UX
- Serviceguard
- ECM Toolkit
- NFS Toolkit
- Online JFS
- GlancePlus PAK
- HA Monitors

### Base OE (BOE)

- Foundation OE
- Auto Port Aggregator
- Process Resource Manager
- C++ linking for Oracle EBS
- Caliper, WDB
- 3D Graphics RTE
- Message Passing Interface
- Math Library

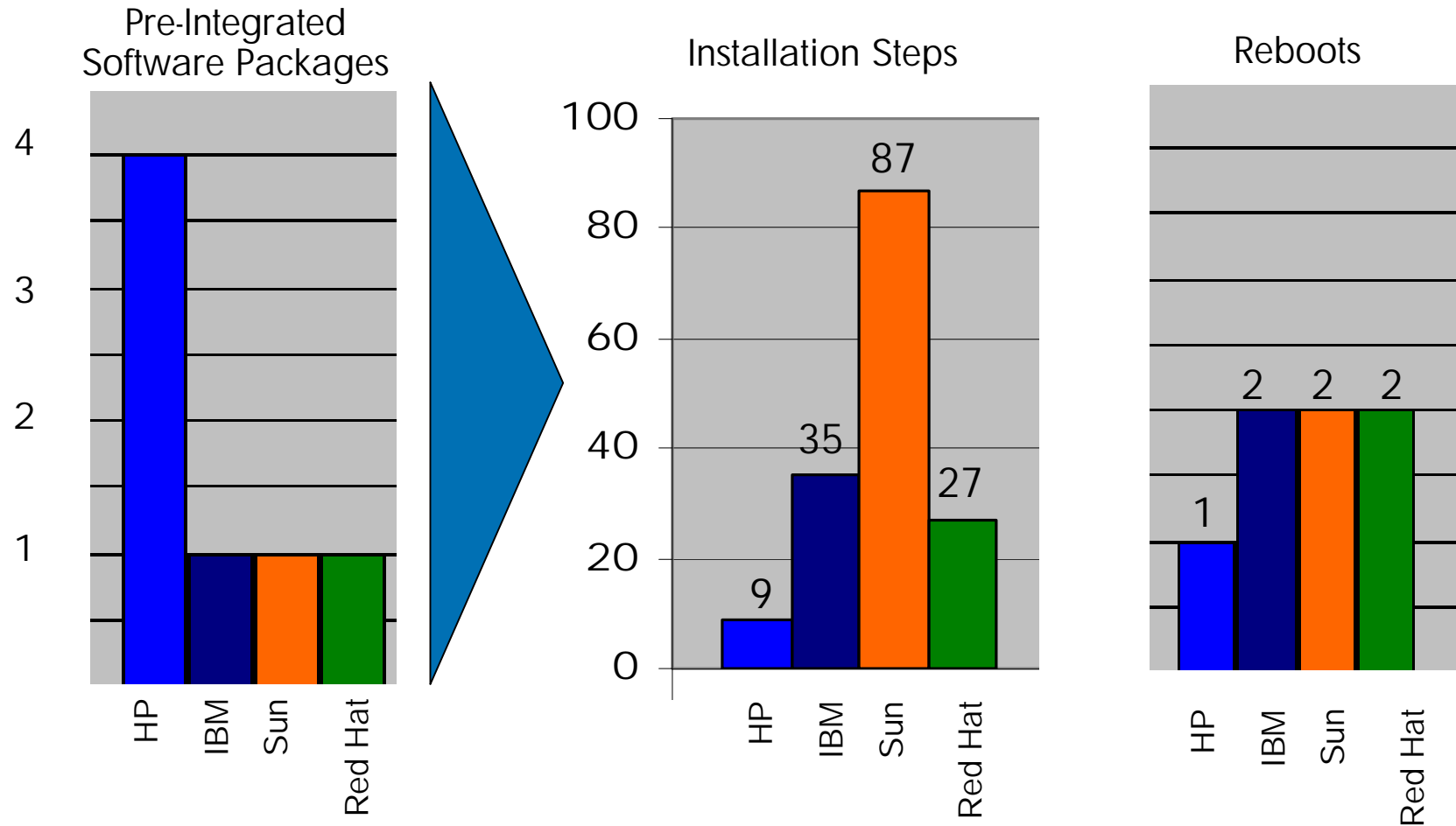
**HP-ux 11i v3**

### Virtual Server OE (VSE-OE)

- Base OE
- MirrorDisk/UX
- VSE Suite:
  - gWLM or WLM
  - HPVM or vPars
  - Capacity Advisor
  - Virtualization Manager
- Online JFS
- GlancePlus PAK
- HA Monitors

\* Upgrades available: SM for Oracle Premium, CFS for Oracle RAC, CFS for Oracle, CFS

# Richest set of integrated software with HP-UX 11i v3 shortens time to deployment



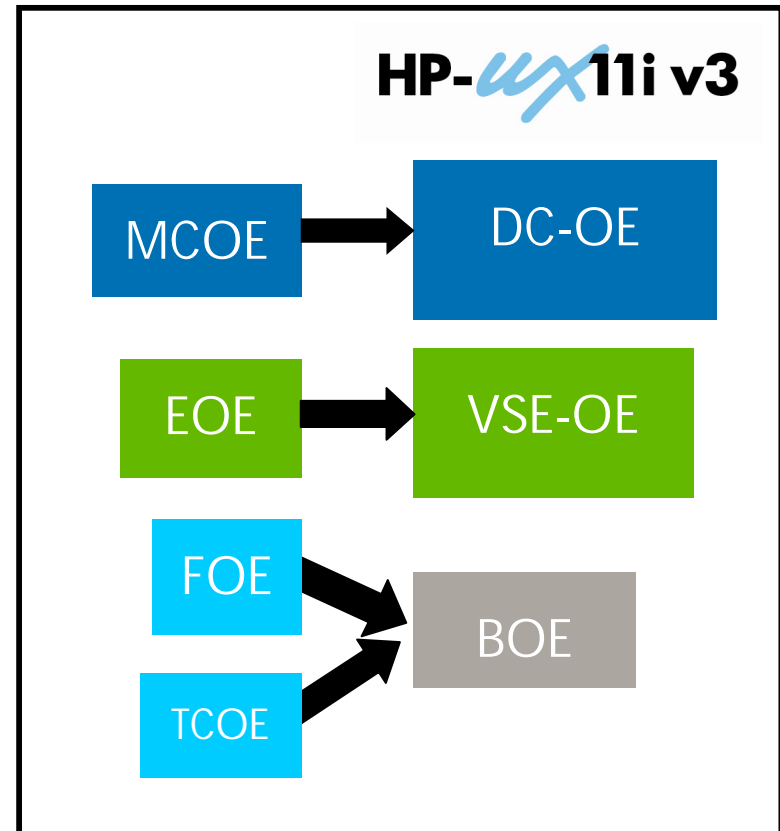
Only HP-UX 11i facilitates changes or operator error correction during the installation

# Upgrades for HP-UX 11i support customers

More software built-in, no additional cost

Support contracts entitle users to upgrade to the latest release including to the new OEs, delivering more high-value software for no additional cost.

- Use the standard support update mechanism to upgrade to the mapped OE
- HP will ship a document granting rights to use the new OEs with support media kits
- Update system OE product numbers during contract renewal or by request to HP
- On contract renewal, price for new OEs will be **less** than the renewal price for the original OE on the same systems



# HP-UX 11i v3 Base OE

- BOE - for customers requiring less complex installations. The Base OE delivers complete HP-UX 11i v3 functionality – integrated security, networking, Web functionality and software management applications.
- BOE also includes technical products to create a technical server.

Base OE

=

Foundation OE

+

What's new  
in BOE that  
wasn't in FOE

- PRM (Process Resource Manager)
- WDB Debugger
- C++ Linking for Oracle EBS
- Caliper Performance Tool
- APA (Auto Port Aggregator)
- Math Library (MLIB)
- Message Passing Interface (MPI)
- 3D Graphics Run Time Environment

# HP-UX 11i v3 High Availability OE

- The HA-OE delivers high availability for large mission critical environments at an intermediate price point.
- HA-OE adds the additional products delivered in the BOE as well as high availability products previously delivered in the MCOE .

High Availability  
OE

=

Enterprise OE

+

(What else is  
new in HA-OE)

What's new  
in BOE that  
wasn't in EOE

- WDB Debugger
- C++ Linking for Oracle EBS
- Caliper Performance Tool
- APA (Auto Port Aggregator)
- Math Library (MLIB)
- Message Passing Interface (MPI)
- 3D Graphics Run Time Environment

+

- Serviceguard
- Enterprise Cluster Master Toolkit
- NFS Toolkit

# HP-UX 11i v3 Virtual Server OE

- For customers desiring higher resource utilization or virtualization agility in a UNIX environment
- VSE-OE adds the additions from the BOE as well as both virtualization technologies - virtual partition and Integrity Virtual Machine. The VSE Suite is contained within the VSE-OE.

Virtual Server  
OE

=

Enterprise OE

+

What's new  
in BOE that  
wasn't in EOE

- WDB Debugger
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- 3D Graphics Run Time Environment

VSE Suite  
components

+

- Virtual Partitions or HP Virtual Machines
- Capacity Advisor
- Virtualization Manager
- gWLM or WLM
- WLM toolkit

# HP-UX 11i v3 Data Center OE

- Simplified & integrated business-critical virtualization
- DC-OE integrates the additions from the BOE, VSE Suite, as well as existing high availability software.

Data Center  
OE

Mission Critical OE

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What's new  
in BOE that  
wasn't in MCOE

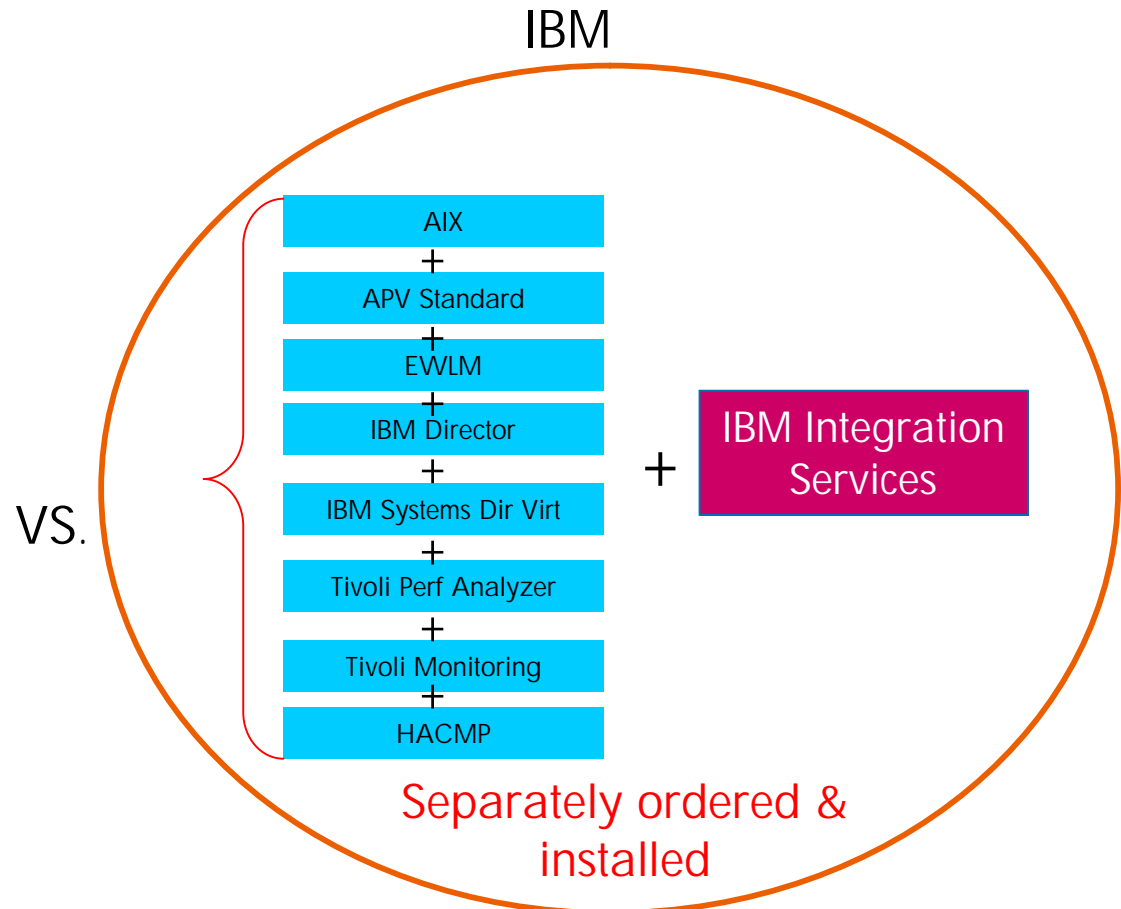
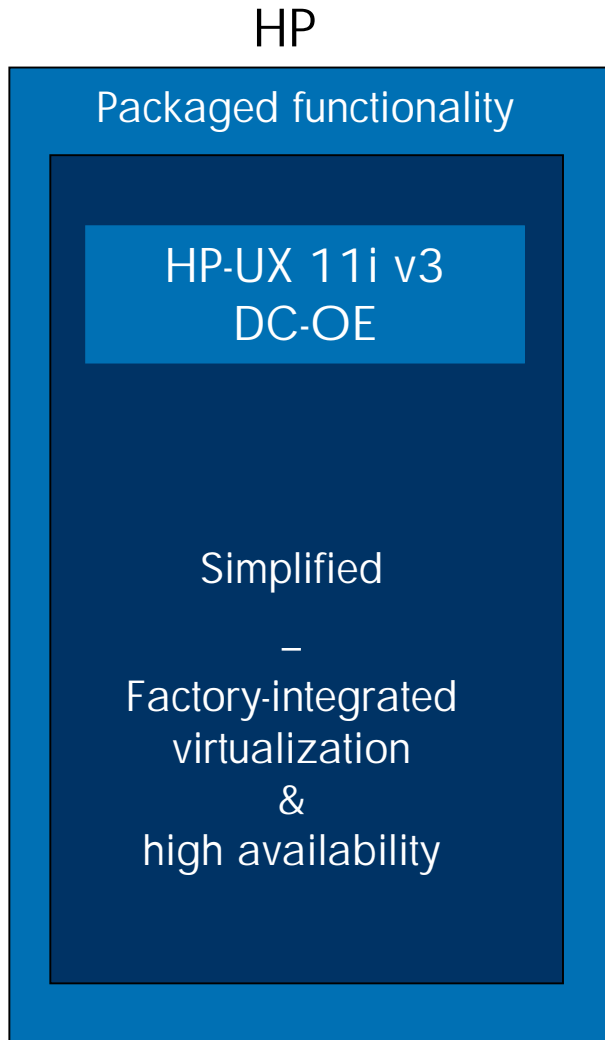
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VSE Suite  
components

- Virtual Partitions or HP Virtual Machines
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- WLM toolkit

+

# Compare like software stacks – find the hidden costs in competitors' UNIX!



Sun – no comparison. Most customers use 3<sup>rd</sup> party clusters.

# HP-UX 11i v3 – UNIX 03 branded

## What is it?

- The Open Group certifies that HP-UX 11i v3 on HP Integrity servers\* conforms to the UNIX 03 standard
- UNIX® certification program guarantees compliance with Single UNIX Specification, which provides a powerful open platform for the development, implementation and management of mission-critical computer systems.

## How does this help you?

- Get reliable assurance of conformance to standards, and interoperability
- Minimize need for conformance testing
- Simplify bid analysis, and reduce procurement document complexity, cost and risk associated with procurement

\*HP-UX 11i v3 on HP 9000 systems conforms to the UNIX 95 standard.  
UNIX is a trademark of The Open Group.



# HP-UX 11i compatibility assurance: Investment protection

- HP engineers compatibility into HP-UX 11i, version to version
- Applications that run on HP-UX 11i v1 & v2 **just work** on HP-UX 11i v3
- Applications **will work** on future releases of HP-UX 11i & future HP Integrity servers

HP-UX 11i compatibility for HP Integrity and HP 9000 servers

March 14, 2007



## Introduction

Hewlett-Packard (HP) understands your need for investment protection. By providing multiple levels of compatibility between operating system versions, between hardware platforms, on virtual machines, and even between chip architectures, we believe the HP-UX operating system provides the most comprehensive investment protection in the industry. (See Appendix A for a definition of levels of compatibility.)

## Compatibility across operating system releases and hardware platforms

For "Well-behaved" user space applications Hewlett-Packard (See Appendix A for a definition of "Well-behaved" and other terms):

Maintains forward data, source, build environment, and binary compatibility across all hardware platforms of the same architecture family (e.g. Integrity or HP 9000) which are supported by the same version of HP-UX.

Provides forward data, source, build environment, and binary compatibility across HP-UX versions on HP 9000 servers and Integrity servers on their respective architectures. This is true for 32bit or 64bit applications on either architecture family.

Delivers new features and improved performance with each new HP-UX release. Binary compatibility across Operating System versions applies to legacy features (features that were present in the earlier release) and often still holds true for new features. There are some instances, however, where applications may be required to recompile in order to use or leverage a new feature. See the release notes for each version of HP-UX for information on new features that may require changes to applications.

[www.hp.com/go/hpuxcompatibility](http://www.hp.com/go/hpuxcompatibility)



# HP-UX 11i planning in 2008

Significant milestones related to your HP-UX 11i environments:

- HP Integrity systems based on Intel Itanium **Montvale** processors, shipping now, are the last new Integrity servers supported by HP-UX 11i v2. Subsequent servers will run HP-UX 11i v3 and future versions.
- The last planned HP-UX 11i v2 update release shipped in December 2007. All new OS functionality will ship only on HP-UX 11i v3.
- New HP-UX 11i v3 OEs ship April 2008 with v3 Update 2
- December 31, 2008 - **the last sale date** for new systems in the HP 9000 family of systems. Upgrades will be available through December 2009.
- December 31, 2009 - **the last sale date** for HP-UX 11i v1 & v2
- Support for HP-UX 11i v1 & 2, and for HP 9000 systems, will continue at least until December 2013.

[www.hp.com/go/hpuxservermatrix](http://www.hp.com/go/hpuxservermatrix) & [/hpux11iroadmap](http://www.hp.com/go/hpux11iroadmap)

**HP-ux11i v3** -- Where to be.



# Ideas International on HP's leadership

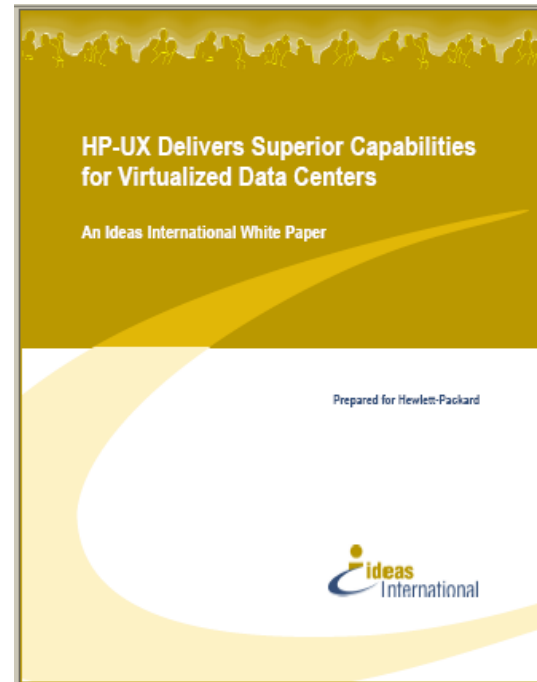
## Functionality and integration

"HP-UX 11i v3 has a very strong portfolio of functions ...

Its balanced functionality of core OS features, its superior integration between critical components, and its flexible deployment options in a variety of hardware form factors and virtualization approaches, make HP-UX 11i v3 ideal for broad deployment across the enterprise."

Ideas International, Inc.

"HP-UX 11i v3 Delivers Superior Capabilities for Virtualized Data Centers", March 2008



[www.hp.com/go/v3ideas](http://www.hp.com/go/v3ideas)



# Find the latest news at any time

HP-UX 11i v3 – simplified & integrated business-critical UNIX®

- HP-UX 11i on hp.com [www.hp.com/go/hpux11i](http://www.hp.com/go/hpux11i)  
Links to everything covered in this presentation
- Handy direct links:
  - HP-UX 11i v2 and new OE launch  
[www.hp.com/go/hpux11itoday](http://www.hp.com/go/hpux11itoday)
  - HP-UX server support matrix  
[www.hp.com/go/hpuxservermatrix](http://www.hp.com/go/hpuxservermatrix)
  - HP-UX 11i roadmap  
[www.hp.com/go/hpux11iroadmap](http://www.hp.com/go/hpux11iroadmap)
  - Test-drive your applications on HP-UX 11i v3 today!  
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  - White papers, documentation and more [www.hp.com/go/hpux11ilibrary](http://www.hp.com/go/hpux11ilibrary)
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