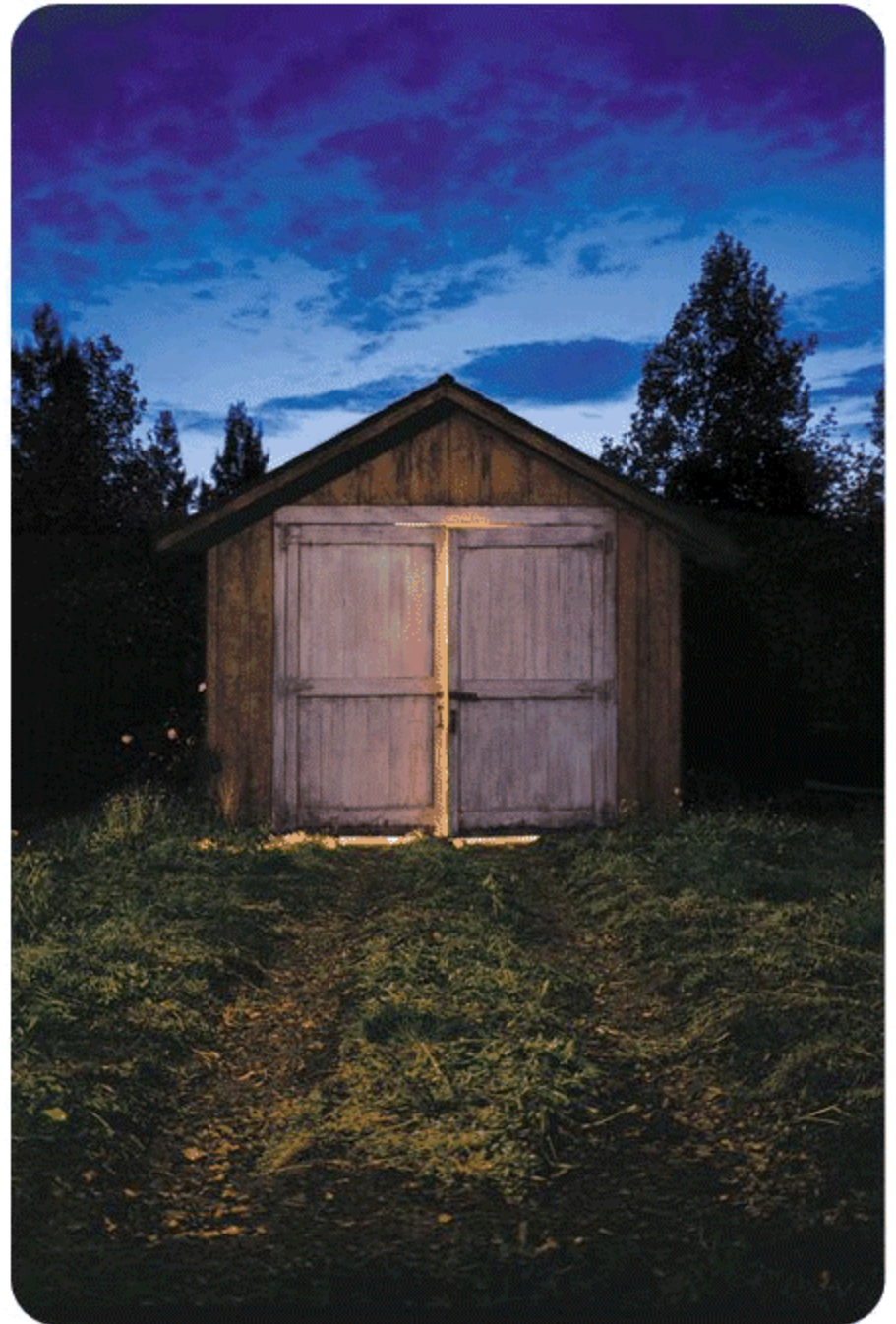


hp-ux 11i
operating
environments



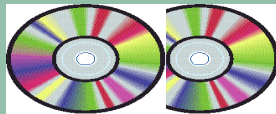
hp-ux 11i commercial operating environments

HP-UX 11i Mission Critical Operating Environment

HP-UX 11i Enterprise Operating Environment

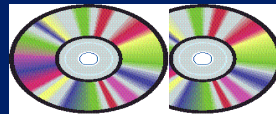
HP-UX 11i Operating Environment

- HP-UX Operating System
- Network drivers
- Web QoS peak
- Apache based Web Server
- Ignite/UX
- Java RTE
- Java JDK
- Java JPI
- CIFS Client
- CIFS Server
- ServiceControl Manager
- System Configuration Repository
- Software Distributor/UX
- Netscape Directory Server
- PAM Keberos
- EMS framework
- Netscape Communicator
- Perl
- Judy Libraries

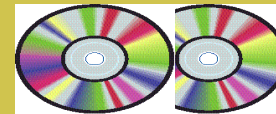


feature supersets

- Online JFS 3.3
- Mirror Disk/UX
- Process Resource Manager (PRM)
- Glance performance Analyzer
- OpenView Performance Agent
- Single-system Event and Availability Management
- Event Monitoring Services (EMS) HA Monitors



- MC/ServiceGuard
- HP-UX Workload Manager
- ServiceGuard NFS Toolkit
- Enterprise Cluster Management (ECM) Toolkit



(Supported on commercial servers only)

features

- Integrated software solution
- Attractive pricing
- Simple installation of very complete, and sophisticated operating environment from a streamlined CD set
- No codewords
- Simplified license management
- Standardized configurations provide opportunity to improve customer certification, deployment and support efficiencies
- Extensive HP system testing
- Global installation media

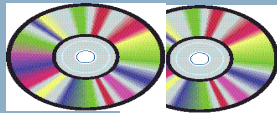


hp-ux 11i technical operating environments

HP-UX 11i Technical Computing Operating Environment

HP-UX 11i Minimal Technical Operating Environment

- HP-UX OS
- 3D Graphics
- Software Distributor/UX
- Ignite/UX
- Netscape Directory Server
- Netscape Communicator
- Network drivers
- Perl
- Judy Libraries

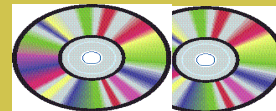


(supported on workstations only)

feature superset



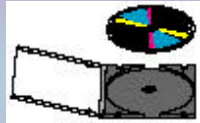
- Visualize conference
- CIFS Client & Server
- Apache based Web Server
- Java RTE
- Java 3D
- Java JPI
- PAM Keberos
- HP Mathematical Software Library (MLIB)
- Message Passing Interface (MPI)



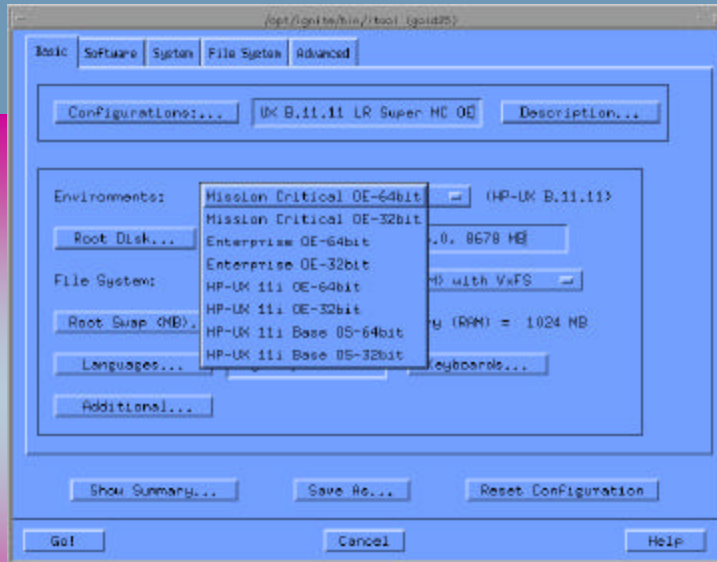
(supported on servers & workstations)



software installation with 11i operating environments



Insert
OE CD #1



Run IgniteUX, configure disks and file system, select OE



Insert
OE CD #2



Reboot



example: hp-ux 11i mission critical operating environment

Install time reduced by 50% versus installing piecemeal

- Comprehensive list of drivers available during cold install
- Reduced number of CD-ROMs required for installation
- Just one reboot to install all OE software!
- Online diagnostics loaded as part of initial cold install
- Integrated documentation, release notes, read-me-first
- Significantly improved updates with new Update-UX

hp-ux 11i
oes

hp-ux 11i operating environments simplifying sales orders, support contracts

One example using the Mission Critical OE; note the vast reduction in the number of individually listed line items.

before OEs (prior to 12/01/00)...

HP-UX 11.00 Operating System and Mission Critical Applications

B3919EA HP-UX License to Use, Servers
B3919EA-AGS Unlimited User License
B3920EA HP-UX Media, Servers
B3920EA-UM4 Version 11.00
B5139DA ECM Toolkit
B3935DA MC/ServiceGuard (v11.09)
B5140BA ServiceGuard NFS
B8843CA Workload Manager
B5736DA EMS HA Monitors
B2491BA MirrorDisk/UX
B3929CA Online JFS (v3.3)
B6133AA OV GlancePlus Pak 2000, Tier 3 Server, LTU
B3701AA OV GlancePlus Pak (English)
B3835DA Process Resource Manager
B8725AA CIFS/9000 Server
B8724AA CIFS/9000 Client
B8111AA Java Runtime Env (v1.2)
J4258BA Netscape Directory Server
J4274AA WebQoS Peak Package Edition
A4926A 1000BaseSX PCI LAN Adapter

...after OEs (beginning 12/01/00)

HP-UX 11i Mission Critical Operating Environment

B9092AA HP-UX Mission Critical OE LTU (w/system)
B7994AA HP-UX Mission Critical OE Media for Servers
B7994AA-UM9 Version 11.11
A4926A 1000BaseSX PCI LAN Adapter



hp-ux 11i
oes

hp-ux 11i operating environments content overview

commercial servers

11i Mission Critical Operating Environment

ECM Toolkit
MC/ServiceGuard (v11.09)
ServiceGuard NFS
Workload Manager

11i Enterprise Operating Environment

EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager

11i Operating Environment

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
*Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
*Perl

technical servers and workstations

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
FirstSpace VRML Viewer
Java 3D
Java JPI
Java Runtime Env (v1.2)
MLIB
MPI
PAM Kerberos
Visualize Conference

11i Technical Computing Operating Environment

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75

11i Minimal Technical Operating Environment

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
*Online Diagnostics
Netscape Directory Server
*Perl

*Online Diagnostics and Perl are always-installed.

Customer Selectable Software and Always-Installed NW Drivers SD Bundle Tags will appear in swlist; SD Bundle Tags for other OE-bundled applications do not appear in swlist.





11i Media Structure

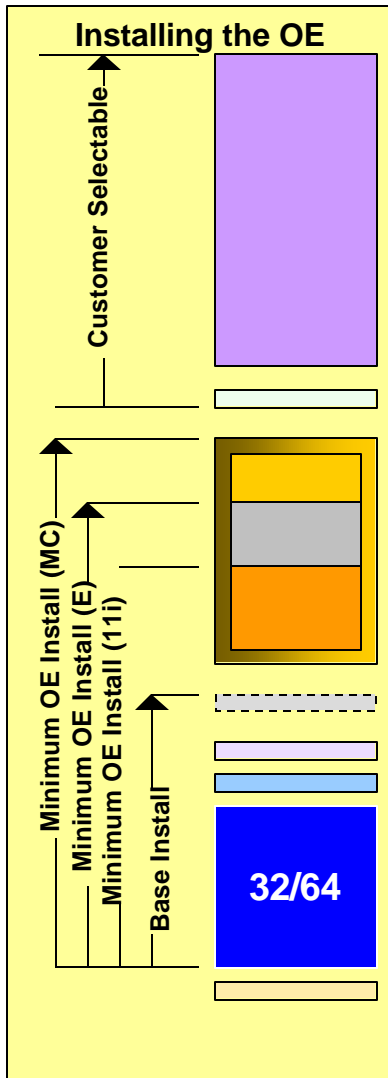
Reflects changes targeted for September Release





hp-ux 11i
oes

hp-ux 11i oe – 1st cd for all oe's



1st CD-ROM

HP-UX Install Utilities for 11.11 (IUX)

HWEnable11i & BUNDLE11i

Network Drivers See next page

HPUXBaseAux Bundle
 SD
 OBAM
 DMI/SCR
 ParMgr
 EMS Framework
 Judy Libraries

Global HPUXBase32
Global HPUXBase64

LIF Header (for cold install)
 - **Mission Critical Specific**
 - **Install Kernel and File System**
 - **Configuration File Information**

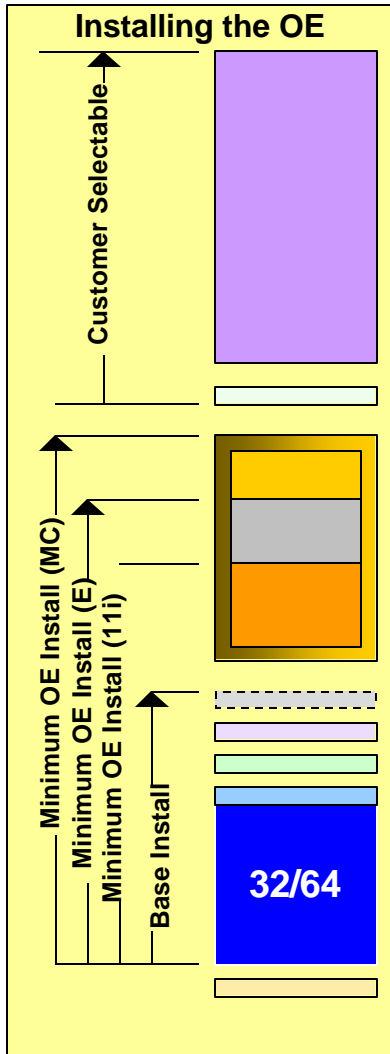
- HP-UX 11.11 Only
- All OEs
- Unencrypted



Last line in network driver boxes relates to the new bundle tag naming convention.

hp-ux 11i
oes

network drivers for all oe's



1st CD-ROM

PCI TachyonTL A5158A/ A6684A/A6685A FibrChanI-00	HSC FDDI A3722A*/A3723A FDDI-01	EISA TokenRing J2165B TokenRing-02
HSC Gigabit A4924A/A4925A GigEther-00	NIO FDDI J2157B FDDI-02	NIO TokenRing J2166B TokenRing-01
HSC EISA Gigabit A4925A GigEther-00	EISA FDDI A3659A/B5502BA FDDI-03	PCI TokenRing A5783A A4930A TokenRing-00
PCI Gigabit 100B-SX A4926A GigEther-00	PCI MUX J3592A/J3593A/A6748A/ A6749A TermIO-00	PCI HyperFab V A4919A HyperFab-00
PCI Gigabit A4929A GigEther-00	EISA MUX J2482A/J2483A TermIO-01	HSC HyperFabric K A4920A HyperFab-00
PCI RAID A5856A RAID-00	HSC ATM J2468A/J2469A/ J2499A/J3420B/J3573A ATM-01	HSC HyperFabric L/N A6092A/A6886A HyperFab-00
PCI FDDI A3739B FDDI-00	PCI ATM A5483A/A5513A/ A5515A/J3557A ATM-00	HSC HyperFabric D/R A4921A HyperFab-00
EISA 100BT A4308B 100BaseT-00		
NIO 100BT A3495A 100BaseT-01		

Always Installed NW Driver

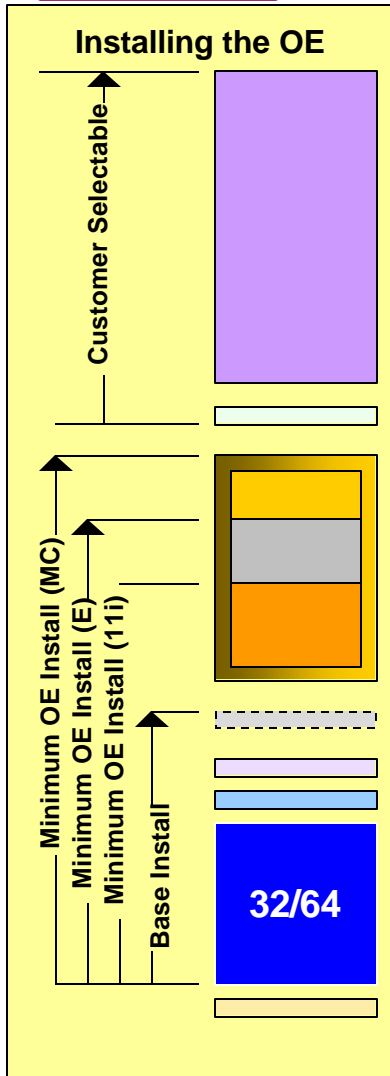
Selectable NW Driver





hp-ux 11i
oes

hp-ux mission critical oe



2nd CD-ROM

- HP-UX 11.11 Only
- Servers Only
- Unencrypted

Mission Critical Software Bundle

Mission Critical Grouping

MC/ServiceGuard
 ServiceGuard NFS
 ECM Toolkit
 Workload Manager

Enterprise Grouping

EMS HA Monitors
 Online JFS 800 (version 3.3)
 OV GlancePlus Pak (English)
 OV GlancePlus Pak (Japan.)
 MirrorDisk/UX
 Process Resource Manager

11i Software Grouping

ServiceControl Manager
 CIFS/9000 Client for Servers
 CIFS/9000 Server for Servers
 Apache WebServer
 Java Runtime Env (v1.2)
 PAM Kerberos
 Java JPI
 Netscape Communicator

- | | |
|---------------|---------------|
| CDE English* | CDE Japanese |
| CDE S-Chinese | CDE T-Chinese |
| CDE Korean | CDE German |
| CDE French | CDE Italian |
| CDE Spanish | CDE Swedish |

Perl – Always Installed

Netscape Directory Services (LDAP)

WebQoS Peak Pkg Ed

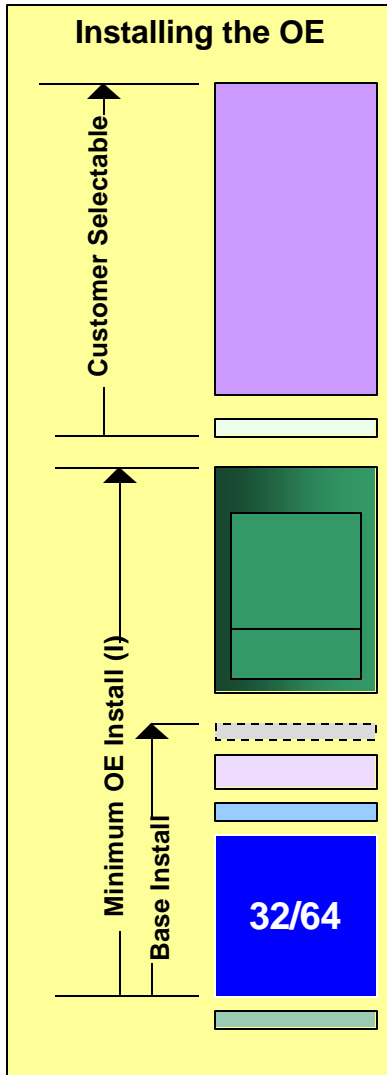
HP-UX Support Tool Bundle (Diagnostics)
(Will always be loaded by default)





hp-ux 11i
oes

hp-ux 11i technical computing oe



2nd CD-ROM

- Perl – Always Installed
- Netscape Directory Services (LDAP)
- HP-UX Support Tool Bundle (Diagnostics) (Will always be loaded)

- HP-UX 11.11 Only
- Workstations and Tech Servers
- Unencrypted

Technical Computing Bundle

Technical Computing Grouping

- CIFS/9000 Client for Servers
- CIFS/9000 Server for Servers
- Apache Web Server
- Java Runtime Env (v1.2)
- PAM Kerberos
- 3D Graphics
- Java 3D
- Java JPI
- Visualize Conference
- MPI
- MLIB
- FirstSpace VRML Viewer
- Netscape Communicator

Minimal Technical Computing Grouping

- 3D Graphics
- Netscape Communicator

- | | |
|---------------|---------------|
| CDE English | CDE Japanese |
| CDE S-Chinese | CDE T-Chinese |
| CDE Korean | CDE German |
| CDE French | CDE Italian |
| CDE Spanish | CDE Swedish |



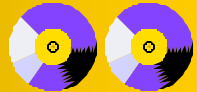
11i media solution

operating environment media & rbi

- Release stream specific (11.11)
- Global Solution (no localized media)
- 1st CD-ROMs differ primarily by LIF header (OE-specific configuration files and menus for unique 2nd CD-ROMs)

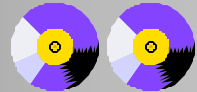
11i Mission Critical OE

Commercial Servers



11i Enterprise OE

Commercial Servers



11i Operating Environment

Commercial Servers



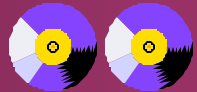
11i Technical Computing OE

Technical Servers and Workstations



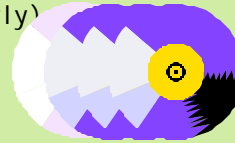
11i Minimal Technical OE

Technical Workstations



application media

- Release stream specific (11.11) for Servers and Workstations
- Number of CD-ROMs varies by stream (a function of the number of applications available on that stream)
- AR (enterprise release or quarterly)



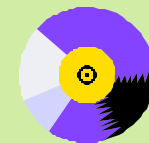
instant info & rbi

- Release stream specific (11.11)
- Both Servers and Workstations



support plus & rbi

- Release stream specific (11.11)
- Both Servers and Workstations
- Online/Offline Diagnostics
- HW Monitors
- Patch Bundles:
 - HW Enablement
 - Gold Base (core plus OE network drivers)
 - Gold Applications (currently OE applications)



what the customer sees on a sales order*

Available HP-UX 11i Mission Critical OE License Products if purchasing OE with System

All Classes except Superdome (tier-based licensing)
B9092AA HP-UX Mission Critical OE LTU

Superdome (per processor licensing)
B9092AC HP-UX Mission Critical OE LTU 1 CPU

Available HP-UX 11i Mission Critical OE License Products if purchasing OE without System

All Classes except Superdome (tier-based licensing)
B9093AA HP-UX Mission Critical OE LTU

Superdome (per processor licensing)
B9093AC HP-UX Mission Critical OE LTU 1 CPU

Available HP-UX 11i Mission Critical OE Media

B7994AA HP-UX Mission Critical OE Media, Servers

Available HP-UX Documentation Products

See existing localized 11.0 Documentation products.

what the customer sees on CD-ROM media



Important Notes regarding HP-UX 11i Mission Critical OE Media

Although the two CD-ROMs are "global" and contain all localization choices, there remain 5 different localized kits due to hardcopy documentation (ABA - English/European, ABJ - Japanese, AB1 - Korean, AB0 - Chinese (Taiwan), and AB2 - Chinese).

OE CD-ROM #1 contains: Base O/S, Network Drivers, two patch bundles and Ignite-UX.

OE CD-ROM #2 contains: HPUX11i-OE-MC, HPUX11i-OE-Ent, and HPUX11i-OE Bundles; CDE, Online Diagnostics, and Customer Selectable Software.

Neither OE CD-ROM requires a codeword to access included software.

Customer may use the Mission Critical Media to install the Mission Critical, Enterprise, or the 11i OE Bundles.

what the customer sees on their system**

HPUX11i-OE-MC
Includes all the applications previously noted

BUNDLE11i (OS patches)

HWEnable11i (HWE patches)

perl

OnlineDiag (Online Diagnostics)

FibrChan1-00 (FibreChannel Tachlite, PCI)

FDDI-00 (FDDI, PCI)

RAID-00 (SCSI RAID, PCI)

GigEther-00 (Gigabit Ethernet PCI, HSC)

CDE-English

HPUXBaseAux
DMI&SCR Partition Manager
EMS Framework Software Distributor
ObAM5 Judy Libraries

HPUXBase64 or HPUXBase32

*Network Driver cards (hardware) ordered separately (not shown).

**Minimal 11i Mission Critical OE Install shown; customer may select all other available products for installation in the same session. Bundle names visible on customer system are underlined. HP recommends installing an OE as the "base" for any 11i-based (version B.11.11) Software Solution.

loading part of an OE (mapping sample)

- Mapping will be given for each OE bundle such that customers can identify individual applications' product.fileset content
- This highly customized, customer-specific method of installation or removal of OE bundle components is not guaranteed to meet all required software dependencies

#####

#Description: Java 2 RTE for HP-UX (700/800), PA1.1 + PA2.0 Add On

Java2RTE_base.JAVA2-JRE-BASE,r=1.2.2.04.02,a=HP-UX_B.11.11_32/64,v=HP

Java2RTE_doc.JAVA2-JRE-DOC,r=1.2.2.04.02,a=HP-UX_B.11.11_32/64,v=HP

Java2RTE_perf.JAVA2-JRE,r=1.2.2.04.02,a=HP-UX_B.11.11_32/64,v=HP

#####

#Description: HP-UX ServiceControl Manager

ServControlMgr.MX-AGENT,r=A.01.01.01,a=HP-UX_B.11.00_32/64,v=HP

ServControlMgr.MX-CMS,r=A.01.01.01,a=HP-UX_B.11.00_32/64,v=HP

ServControlMgr.MX-ENG-MAN,r=A.01.01.01,a=HP-UX_B.11.00_32/64,v=HP

ServControlMgr.MX-TOOLS,r=A.01.01.01,a=HP-UX_B.11.00_32/64,v=HP

hp-ux operating environment information

(page 1/4)

-
- There are five Operating Environments; three for commercial servers and two for technical systems. The TCOE is supported on servers and workstations and the MTOE is only supported on workstations. Each OE requires two CDs for installation.
 - Each OE (commercial versus technical) is a superset of the previous one.
 - Products contained on the OE media do not need to be ordered separately for on the Sales or Support order.
 - OE media is globalized for all languages.
 - No codewords are required for products on the OE media.
 - LIF Header that provides the IgniteUX cold install user interface is unique on each OE 1st CD-ROM.
-

hp-ux operating environment information

(page 2/4)

- There is no easy way to load or remove individual components within OE bundles.
 - A minimum of 4GB disk is required to install an Operating Environment.
 - A minimum of 128MB RAM is required to install 11i; however, 256MB is recommended (especially for full Enterprise and Mission Critical OE installations).
 - Commercial Server OEs are not supported on Technical Systems; Technical Computing OE is supported on ALL systems. Minimal Technical OE is only supported on workstations.
-

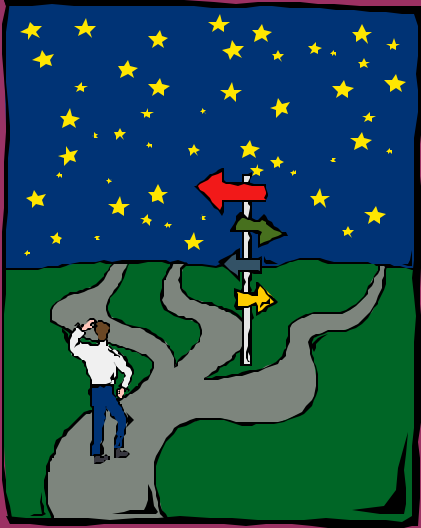
hp-ux operating environment information

(page 3/4)

- Both OE CD-ROMs (for any given OE) are required for any installation or update.
- OE bundles are integrated with the product. filesets contained within each Application product exactly as those individual products are available.
- Online Diagnostics are always installed. Online Diagnostics also appears on the SupportPlus media, which will also include SCAN tools. SCAN tools will not be on OE media.
- All factory ignited systems will be loaded with the Minimum OE Install.

- Multiple drivers are available during the install process
 - OE Bundles:
 - 11i SW Grouping = HPUX11i-OE bundle
 - 11i SW Grouping + Enterprise SW Grouping = HPUX11i- OE-Ent Bundle
 - 11i SW Grouping + Enterprise SW Grouping + Mission Critical SW Grouping = HPUX11i-OE-MC Bundle
 - Minimal Technical SW Grouping = HPUX11i-MTOE Bundle
 - Minimal Technical SW Grouping + Technical Computing SW Grouping = HPUX11i-TCOE Bundle
 - Ignite-UX space calculations may overstate size requirements due to the way that CDE is split (many product.filesets are redundant between the CDE bundles)
-

hp-ux 11i
oes



11i patch bundles

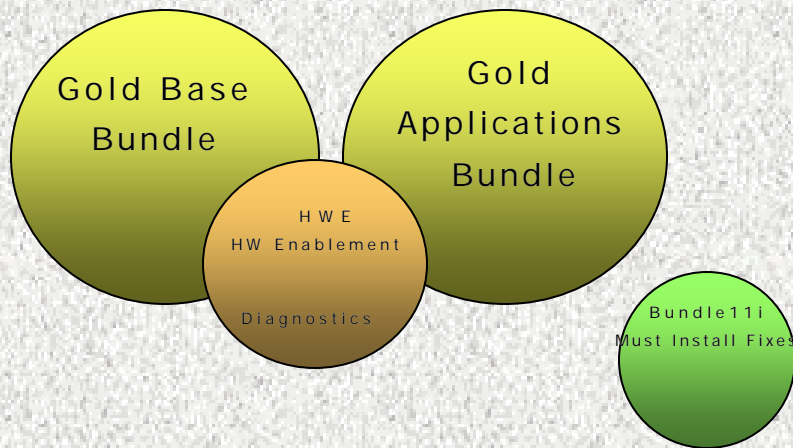
- BUNDLE11i
- HWE (Hardware Enablement)
- Gold Quality Packs



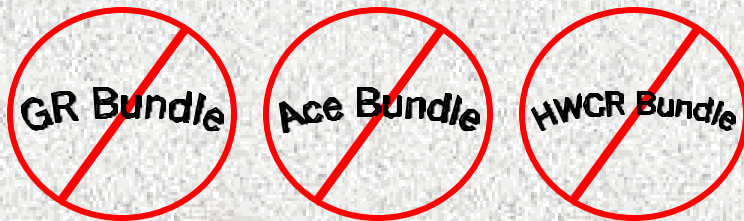
11i Patch Bundles

What's Changed

What's New



What's Obsolete

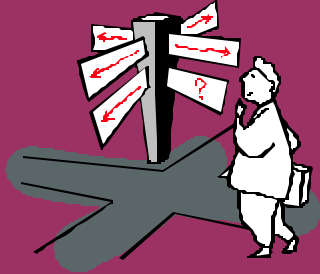


Gold Quality Pack Bundles

- Stable recommended bundle
- Content reviewed by ISV and HP Application developers, and HP Support
- Customer focused application testing
- **HWE Bundle**
 - Enables systems and peripherals
 - Content from new HW System & Peripheral enablement programs
 - Install Kernel changes supported
- **BUNDLE11i**
 - critical class fixes
 - All systems MUST install
 - Reactive content



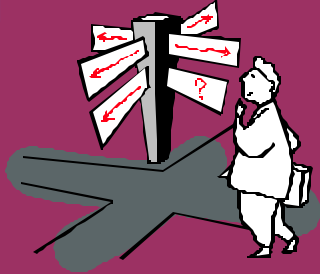
hp-ux 11i
oes



What is a
BUNDLE11i?

- Required on every system.
- Created to deliver required system defect fixes. This bundle will change only when required.
- Will automatically install from OE CD 1.
- Will be ignited on new system shipments.

hp-ux 11i
oes

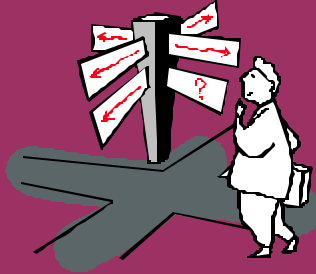


What is an HWE (Hardware Enablement) bundle?

- Created to deliver patches and diagnostics that enable new hardware. New hardware can be systems or peripherals.
- This bundle will change quarterly.
- Should be applied on every system (not required for proactive patching)
- Can be installed from OE CD 1 or SupportPlus
- Will be ignited on new system shipments.



hp-ux 11i
oes



What is Gold Quality Pack Bundle?

- Created to deliver defect fixes in the form of patches. This is a recommended patch bundle with content reviewed by ISV developers, internal HP application product developers, and support engineers.
- Recommended - apply on every system for proactive patching.
- Will be ignited on new system shipments.



hp-ux 11i
oes

Gold Quality Pack Patch Bundles

- Technical ISV recommendations have been part of the Quality Pack since 10.20.
- These commercial server ISV's are making an initial set of recommendations for patch content:
 - SAP
 - Oracle
 - Informix
 - BroadVision
 - Rational
 - SAS
 - Hyperion



hp-ux 11i
oes

Gold Quality Pack Patch Bundles

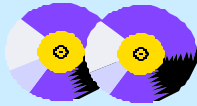
- Also our internal HP application patches are now being included. Patches for these products are in the June bundle.
 - MirrorDisk
 - JFS
 - PRM
 - EMS
 - OV GlancePlus Pak
 - Service Guard
 - Workload Manger



hp-ux 11i
oes

11i Patch Bundles

What's Available



OE Media
Content



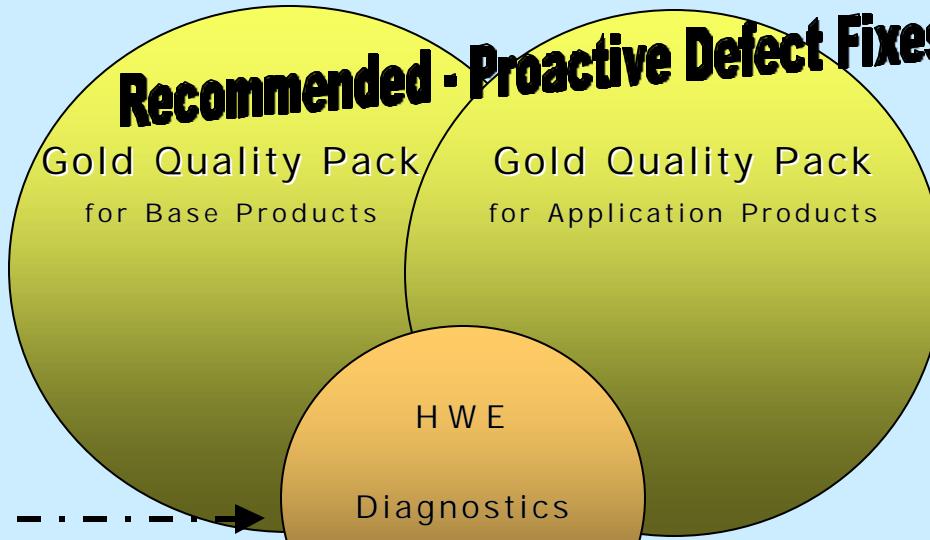
SupportPlus
Media Content

Always Install

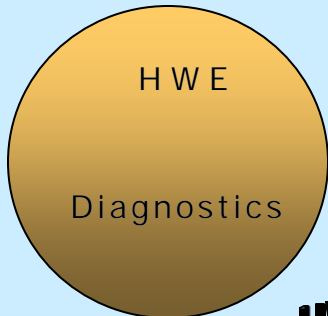


Refreshed
as needed

Recommended - Proactive Defect Fixes



Content change
every 6 months.



Install with New HW

Delivered on both media

Refreshed
every 3 months

Install with New HW



hp-ux 11i
oes

working with the - Gold Quality Pack Patch Bundles

Bundle Structure

Depot Directory (/cdrom/GOLDQPK11i)

One SD depot with two bundles:

GOLDAPPS11i

GOLDBASE11i

Each bundle is intended for both 32
and 64 bit systems.

Both bundle wrappers are "sticky"
(is_reference=true).



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working with the - Gold Quality Pack Patch Bundles

How to use the depot

You can `patch_match_target` the entire depot...

- Resulting in applying patches to Applications and Base 11i
- Bundle wrapper in swlist will be "GOLDBASE11i", "GOLDAPPS11i"

You can exclusively select a bundle and "mark for install"

- Resulting in only applying patches appropriate for your system from the selected bundle.
- Bundle wrapper in swlist will be "GOLDBASE11i" or "GOLDAPPS11i".

You can `swcopy` one bundle to a system and then `patch_match_target`

- Resulting in only applying patches appropriate for your system from the selected bundle.
- Bundle wrapper in swlist will be
- "GOLDBASE11i" or "GOLDAPPS11i".



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Putting it all Together



Updating Systems
Proactive Patching



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Putting it all Together Updating Systems



Set Up Base Depot



+



+



OE CD 1

- HPUXBase 32/64
- HPUXBaseAux
- NW Drivers
- BUNDELE11i
- HWE Bundle
- IUX - Optional

OE CD 2

- CDE Bundle
- OE-Application Bundle
- Diagnostics
- CustomerSelectable Applications

SupportPlus

- GOLDBASE11i
- GOLDAPPS11i

Set Up Additional Depot



+

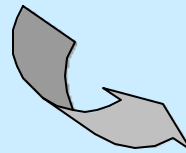


AR Media

- Select HP applications not included in OE

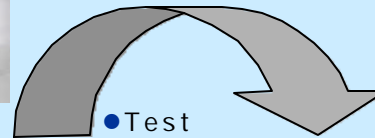
ITRC

- Select patches for products not in OE's



Depot

- Test
- Validate
- Deploy

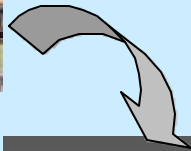


Production Environment





hp-ux 11i
oes

Putting it all Together Proactive Patching

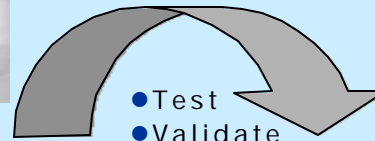


Set Up Depot

	
Support Plus	ITRC
<ul style="list-style-type: none">• GOLDBASE11i and/or• GOLDAPPS11i	<ul style="list-style-type: none">• Select patches for products not in OE's



Depot



- Test
- Validate
- Deploy



Production Environment



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backup slides



glossary of terms

[Operating Environment \(OE\)](#) An integrated and tested software solution containing HP-UX operating system software and selected applications that are marketed and supported via OE-specific license and media product(s)

[HP-UX 11i Mission Critical OE](#) An Operating Environment marketed and supported only for Commercial Servers containing HPUXBase, HPUXBaseAux Bundle, Mission Critical Software Bundle, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles, Customer Selectable Software

[HP-UX 11i Enterprise OE](#) An Operating Environment marketed and supported only for Commercial Servers containing HPUXBase, HPUXBaseAux Bundle, Enterprise Software Bundle, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles, Customer Selectable Software

[HP-UX 11i OE](#) An Operating Environment marketed and supported only for Commercial Servers containing HPUXBase, HPUXBaseAux Bundle, 11i Software Bundle, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles, Customer Selectable Software

glossary of terms

[HP-UX 11i Technical Computing OE](#) An Operating Environment marketed and supported on Technical Computing Servers and Workstations containing HPUXBase, HPUXBaseAux Bundle, Technical Computing Software Bundle, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles, Customer Selectable Software

[HP-UX 11i Minimal Technical OE](#) An Operating Environment marketed and supported on Technical Computing Workstations containing HPUXBase, HPUXBaseAux Bundle, Minimal Technical Software Bundle, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles, Customer Selectable Software

[11i Grouping](#) Group of applications that comprise the definitive list of what is in the 11i OE (Commercial Servers only); this term synonymous with "11i Software Bundle"

[Enterprise Grouping](#) Group of applications that comprise the definitive list of what is in the Enterprise OE (Commercial Servers only)

[Mission Critical Grouping](#) Group of applications that comprise the definitive list of what is in the Mission Critical OE (Commercial Servers only)

glossary of terms

[Minimal Technical Grouping](#) Group of applications that comprise the definitive list of what is in the Minimal Technical OE (Workstations only)

[Technical Computing Grouping](#) Group of applications that comprise the definitive list of what is in the Technical Computing OE (Technical Systems only)

[11i Software Bundle](#) A bundle of product.filesets that comprise the applications included in the 11i Grouping; this term synonymous with "11i Software Grouping". SD Bundle Tag: HPUX11i-OE

[Enterprise Software Bundle](#) A bundle of product.filesets that comprise the applications included in the 11i and Enterprise Groupings
SD Bundle Tag: HPUX11i-OE-Ent

[Mission Critical Software Bundle](#) A bundle of product.filesets that comprise the applications included in the 11i, Enterprise, and Mission Critical Groupings. SD Bundle Tag: HPUX11i-OE-MC

[Minimal Technical Software Bundle](#) A bundle of product.filesets that comprise the applications included in the Minimal Technical Computing Grouping. SD Bundle Tag: HPUX11i-MTOE

glossary of terms

[Tech Computing Software Bundle](#) A bundle of product.filesets that comprise the applications included in the Minimal Technical and Technical Computing Groupings. SD Bundle Tag: HPUX11i-TCOE

[HPUXBase](#) Base HP-UX "core" operating system software that includes, at a minimum, 32 and 64 bit versions of the kernel and the LIF header. Relevant SD Bundle Tags: HPUXBase64 HPUXBase32

[HPUXBaseAux Bundle](#) A bundle that contains software components and Applications that complement functionality in HPUXBase and will always be loaded onto systems during cold install and factory ignition process.

[Base OS Install](#) Install of a combination of HPUXBase, HPUXBaseAux, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles, and CDE (English only for Commercial Servers, all localized CDE bundles for Technical Systems)

[Minimum OE Install](#) Install of a combination of HPUXBase64 or HPUXBase32 (dependent upon HW), HPUXBaseAux, Always-Installed Network Drivers, HWEnable11i and BUNDLE11i Patch Bundles CDE (English only for Commercial Servers, All for Technical Systems), and the highest content OE Software Bundle designated by the IUX Menu Selector.

glossary of terms

[1st CD-ROM](#) CD-ROM that contains, at a minimum, HPUXBase64, HPUXBase 32, HPUXBaseAux, BUNDLE11i, HWEnable11i, and Always-Installed Network Drivers.

[2nd CD-ROM](#) CD-ROM that contains, at a minimum, CDE and the OE Software Bundle.

[Customer Selectable](#) Referring to the install process, applications optionally selected and loaded by the customer

[Always-Installed NW Drivers](#) Network Drivers that are always installed during the cold install and factory ignition processes.

[BUNDLE11i & HWEnable11i](#) Patch bundles for the operating system that are always installed

hp-ux 11i
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getting to know hp-ux operating environments

- The following series of slides will show how HP-UX 11i Operating Environments are constructed from pieces of the total 11i Software Solution

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getting to know hp-ux operating environments

- HP-UX version B.11.11 is at the heart of each HP-UX 11i Operating Environment and provides the sound foundation onto which each OE Solution is built
- Two global base HP-UX bundles are delivered at B.11.11 and are differentiated by bitness: HPUXBase64 for 64-bit capable hardware, and HPUXBase32 for 32-bit capable hardware

HP-UX 11i Core Functionality
HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

getting to know hp-ux operating environments

- Functionality complementary to base HP-UX is included in a separately constructed, always-installed bundle called HPUXBaseAux
- For B.11.11, Software Distributor (swdist) moves from “core” to this separate bundle (a primary reason why HPUXBaseAux is always-installed)
- The entire software contents (product.filesets) of the following products are wholly contained within the HPUXBaseAux bundle: DMI & SCR, EMS Framework, ObAM5, Partition Manager, Judy Libraries and Software Distributor (swdist)
- The following products are available on the 11i Application Release media:
 - EMS Framework
 - DMI & SCR
 - Partition Manager

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

getting to know hp-ux operating environments

- In addition to the drivers already installed with HPUXBase64 (or HPUXBase32), there are four always-installed Network and Mass Storage drivers: Gigabit Ethernet, PCI FDDI, PCI FibreChannel (Tachlite), and SCSI RAID
- The individual SD bundle tags for these drivers appear on the OE media as well as on the system following installation:
 - Gigabit Ethernet, SD bundle tag: GigEther-00
 - PCI FDDI, SD bundle tag: FDDI-00
 - PCI FibreChannel (Tachlite), SD bundle tag: FibrChanI-00
 - SCSI RAID, SD bundle tag: RAID-00
- These four always-installed drivers also appear individually on the 11i Application Release media

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

hp-ux 11i
oes

getting to know hp-ux operating environments

- Patch Bundles: BUNDLE11i is a required patch bundle for the Operating System
HWEnable11i is for hardware enablement. Both bundles are always installed.
- HP-UX 11i Core Functionality (HPUXBase64, HPUXBase32), HPUXBaseAux, Always-Installed NW Drivers and the Patch Bundles, provide the foundation of each of the five Operating Environments

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Librarires

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)



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oes

getting to know hp-ux operating environments

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

- The "11i Grouping" contains the applications that comprise the HPUX11i-OE software bundle
- The HPUX11i-OE software bundle is installed with the Minimum OE Install selection (optional, HP-recommended)
- The entire software contents (product.filesets) of the 11i Grouping are wholly contained within the HPUX11i-OE bundle
- Applications in the "11i Grouping" are individually available on the 11i Application Release media
- Applications in the "11i Grouping" do not need to be listed separately on the sales order or support contract



getting to know hp-ux operating environments

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- Customer Selectable Software resides on the OE media (CD-ROM pair) and may be chosen by the customer for installation at the same time as the Base OS Install or Minimum OE Install
- Online Diagnostics and Perl are always-installed
- All the Customer Selectable Applications are individually available on the 11i Application Release media. No codeword is required except for WebQoS Peak. there is a process in place to supply a codeword The following software is individually available on the 11i Support Plus media:
 - Online Diagnostics, HWEEnable11i
- Customer Selectable Software does not need to be listed separately on the sales order or support contract

getting to know hp-ux operating environments

11i Operating Environment

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- The HP-UX 11i Operating Environment is the base offering for HP9000 Commercial Servers
- The customer may choose either the Base OS Install or Minimum OE Install (recommended) along with the selectable software of their choice
- Installation of or update to 11i requires both OE CD-ROMs or pulling from a depot created from the content of both CD-ROMs

getting to know hp-ux operating environments

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [TachLite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- The "Enterprise Grouping" contains the applications that uniquely identify the Enterprise OE
- The entire software contents (product.filesets) of the Enterprise Grouping are wholly contained within the HPUX11i-OE-Ent bundle, *plus* the entire contents of the HPUX11i-OE bundle
- The HPUX11i-OE-Ent software bundle is installed with the Minimum OE Install selection (recommended)
- Applications in the "Enterprise Grouping" are individually available on the 11i Application Release media. They are codeword protected and there is a process in place to supply a codeword.
- Applications in the "Enterprise Grouping" do not need to be listed separately on the sales order or support contract (if Enterprise OE LTU purchased)

getting to know hp-ux operating environments

11i Enterprise Operating Environment

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- The HP-UX 11i Enterprise Operating Environment is the system management offering for HP9000 Commercial Servers
- The HP-UX 11i Enterprise OE is a superset of the 11i OE
- The customer may choose either the Base OS Install or Minimum OE Install (recommended) along with the selectable software of their choice
- The customer may install either the Enterprise or 11i OE from the Enterprise CD-ROM media
- Installation of or update to 11i requires both OE CD-ROMs or pulling from a depot created from the content of both CD-ROMs

hp-ux 11i
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getting to know hp-ux operating environments

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [TachLite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

ECM Toolkit
MC/ServiceGuard (v11.09)
ServiceGuard NFS
Workload Manager

EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- The "Mission Critical Grouping" contains the applications that uniquely identify the Mission Critical OE
- The entire software contents (product.filesets) of the Mission Critical Grouping are wholly contained within the HPUX11i-OE-MC bundle, *plus* the entire contents of the HPUX11i-OE-Ent bundle
- The HPUX11i-OE-MC software bundle is installed with the Minimum OE Install selection (HP-recommended)
- Applications in the "Mission Critical Grouping" are individually available on the 11i Application Release media. They are codeword protected and there is a process in place to supply a codeword.
- Applications in the "Mission Critical Grouping" do not need to be listed separately on the sales order or support contract (if Mission Critical OE LTU purchased)



getting to know hp-ux operating environments

11i Mission Critical Operating Environment

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [TachLite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

ECM Toolkit
MC/ServiceGuard (v11.09)
ServiceGuard NFS
Workload Manager

EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (NIO, EISA)
ATM (PCI, HSC)
FDDI (HSC, NIO, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, NIO, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- The HP-UX 11i Mission Critical Operating Environment is the high availability offering for HP9000 Commercial Servers
- The HP-UX 11i Mission Critical OE is a superset of the Enterprise and 11i OEs
- The customer may choose either the Base OS Install or Minimum OE Install (recommended) along with the selectable software of their choice
- The customer may install either the Mission Critical, Enterprise, or 11i OE from the Mission Critical CD-ROM media
- Installation of or update to 11i requires both OE CD-ROMs or pulling from a depot created from the content of both CD-ROMs

hp-ux 11i
oes

getting to know hp-ux operating environments

commercial servers

11i Mission Critical Operating Environment

ECM ToolKit
MC/ServiceGuard (v11.09)
ServiceGuard NFS
Workload Manager

11i Enterprise Operating Environment

EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager

11i Operating Environment

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [TachLite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Communicator (v4.75)
PAM Kerberos
ServiceControl Manager

Customer Selectable Software

100Base-T (NIO, EISA)
ATM (PCI, HSC)
FDDI (HSC, NIO, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, NIO, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
WebQoS Peak Package Edition
Perl

- Three operating environments are available for HP9000 Commercial Servers:
 - Mission Critical
 - Enterprise
 - 11i
- Each higher OE is a superset of the OE that precedes it



getting to know hp-ux operating environments

- The shown grouping of software contains the applications that comprise the HPUX11i-MTOE software bundle
- The HPUX11i-MTOE software bundle is installed with the Minimum OE Install selection (HP-recommended)
- The entire software contents (product.filesets) of the products shown to the right are wholly contained within the HPUX11i-MTOE bundle

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75)

- Applications in the MTOE bundle are individually available on the 11i Application Release media. There is no codeword required.
- Applications in the MTOE bundle do not need to be listed separately on the sales order or support contract

getting to know hp-ux operating environments

- Customer Selectable Software resides on the OE media (CD-ROM pair) and may be chosen by the customer for installation at the same time as the Base OS Install or Minimum OE Install
- Online Diagnostics are always-installed
- Customer Selectable Applications are individually available on the 11i Application Release media. They are codeword protected and there is a process in place to supply a codeword.
- The following software is individually available on the 11i Support Plus media:
 - Online Diagnostics, product OnlineDiag and the HWEnable11i bundle
- Customer Selectable Software does not need to be listed separately on the sales order or support contract

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75)

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
Perl

getting to know hp-ux operating environments

technical servers and workstations

- The HP-UX 11i Minimal Technical Operating Environment is the offering for HP9000 Technical Workstations Only
- The customer may choose either the Base OS Install or Minimum OE Install (recommended) along with the selectable software of their choice
- Installation of or update to 11i requires both OE CD-ROMs or pulling from a depot created from the content of both CD-ROMs

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [TachLite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75)

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
Perl

**11i Minimal
Technical
Operating
Environment**

getting to know hp-ux operating environments

- The "Technical Computing Grouping" of software contains the applications that uniquely identify the Technical Computing OE
- The HPUX11i-TCOE software bundle is installed with the Minimum OE Install selection (HP-recommended)
- The entire software contents (product.filesets) of the products shown to the right are wholly contained within the HPUX11i-TCOE bundle

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
FirstSpace VRML Viewer
Java 3D
Java JPI
Java Runtime Env (v1.2)
MLIB
MPI
PAM Kerberos
Visualize Conference

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75)

Patch Bundles

BUNDLE11i
HWEEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

- Applications in the TCOE bundle are individually available on the 11i Application Release media. The following products are codeword protected and there is a process in place to supply a codeword.
 - MLIB, product B6061AA
 - MPI, product B6060BA
- Applications in the TCOE bundle do not need to be listed separately on the sales order or support contract

getting to know hp-ux operating environments

- The HP-UX 11i Technical Computing Operating Environment is the offering for HP9000 Technical Servers and Workstations
- The customer may choose either the Base OS Install or Minimum OE Install (recommended) along with the selectable software of their choice
- The customer may install either the Minimal Technical or the Technical Computing OE from the Technical Computing OE CD-ROM media
- Installation of or update to 11i requires both OE CD-ROMs or pulling from a depot created from the content of both CD-ROMs

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

technical servers and workstations

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
FirstSpace VRML Viewer
Java 3D
Java JPI
Java Runtime Env (v1.2)
MLIB
MPI
PAM Kerberos
Visualize Conference

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75)

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
Perl

**11i Technical
Computing
Operating
Environment**

getting to know hp-ux operating environments

technical servers and workstations

- Two operating environments are available for HP9000 Technical Systems:
 - Technical Computing
 - Minimal Technical
- The higher OE is a superset of the OE that precedes it

Patch Bundles

BUNDLE11i
HWEnable11i

Always-Installed NW Drivers

Gigabit Ethernet (PCI, HSC)
FDDI (PCI)
FibreChannel [Tachlite] (PCI)
SCSI RAID (PCI)

Contents of HPUXBaseAux

DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries

HP-UX 11i Core Functionality

HPUXBase64 (64-bit)
HPUXBase32 (32-bit)

Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
FirstSpace VRML Viewer
Java 3D
Java JPI
Java Runtime Env (v1.2)
MLIB
MPI
PAM Kerberos
Visualize Conference

3D Graphics Dev Kit and RTE
Netscape Communicator v4.75)

Customer Selectable Software

100Base-T (HP-PB, EISA)
ATM (PCI, HSC)
FDDI (HSC, HP-PB, EISA)
HyperFabric (PCI, HSC)
MUX (PCI, EISA)
TokenRing (PCI, HP-PB, EISA)
HP-UX Install Utilities 11.11 (IUX)
Online Diagnostics
Netscape Directory Server
Perl

**11i Technical
Computing
Operating
Environment**

**11i Minimal
Technical
Operating
Environment**

what the customer
sees on a sales order*

Available HP-UX 11i OE License Products if
purchasing OE **with System**

All Classes except Superdome (tier-based licensing)
B9088AA HP-UX OE LTU (w/system)

Superdome (per processor licensing)
B9088AC HP-UX OE LTU 1 CPU (w/system)

Available HP-UX 11i OE License Products if
purchasing OE **without System**

All Classes except Superdome (tier-based licensing)
B9089AA HP-UX OE LTU (w/o system)

Superdome (per processor licensing)
B9089AC HP-UX OE LTU 1 CPU (w/o system)

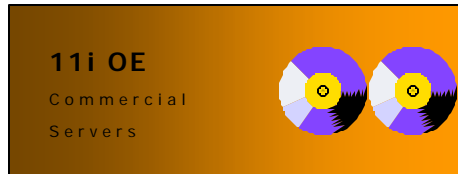
Available HP-UX 11i OE Media Product

B3920EA HP-UX OE Media for Servers

Available HP-UX Documentation Products

See existing localized 11.0 Documentation products.

what the customer
sees on CD-ROM media



Important Notes regarding HP-UX 11i OE
Media

Although the two CD-ROMs are "global" and contain all localization choices, there remain 5 different localized kits due to hardcopy documentation (ABA - English/European, ABJ - Japanese, AB1 - Korean, AB0 - Chinese (Taiwan), and AB2 - Chinese).

OE CD-ROM #1 contains: Base O/S, Network Drivers, and Ignite-UX.

OE CD-ROM #2 contains: HP-UX11i-OE Bundle, CDE, Online Diagnostics, and Customer Selectable Software.

Neither OE CD-ROM requires a codeword to access included software.

what the customer
sees on their system**

HPUX11i-OE (Includes previously
Noted applications):

BUNDLE11 (Required OS patch bundle)

HWEnable11i (Always Installed for HWE)

perl

OnlineDiag (Online Diagnostics)

FibrChanI-00 (FibreChannel Tachlite, PCI)

FDDI-00 (FDDI, PCI)

RAID-00 (SCSI RAID, PCI)

GigEther-00 (Gigabit Ethernet PCI, HSC)

CDE-English

HPUXBaseAux

DMI&SCR	Partition Manager
EMS Framework	Software Distributor
ObAM5	Judy Libraries Libraries

HPUXBase64 or HPUXBase32

*Network Driver cards (hardware) ordered separately (not shown).

**Minimal 11i OE Install shown; customer may select all other available products for installation in the same session. Bundle names visible on customer system are underlined. HP recommends installing an OE as the "base" for any 11i-based (version B.11.11) Software Solution.

what the customer
sees on a sales order*

Available HP-UX 11i Technical Computing OE License Products if purchasing OE **with System**

All Classes except Superdome (tier-based licensing)
B6822AA HP-UX TCOE LTU

Superdome (per processor licensing)
B6822AC HP-UX TCOE LTU 1 CPU

Available HP-UX 11i Technical Computing OE License Products if purchasing OE **without System**

All Classes except Superdome (tier-based licensing)
B6823AA HP-UX TCOE LTU

Superdome (per processor licensing)
B6823AC HP-UX TC OE LTU 1 CPU

Available HP-UX 11i Technical Computing OE Media

B6821AA HP-UX TC OE Media

Available HP-UX Documentation Products

B2355GA HP-UX 11i English manuals
B2355GD HP-UX 11i German manuals
B2355GF HP-UX 11i French manuals
B2355GJ HP-UX 11i Japanese manuals

what the customer
sees on CD-ROM media



Important Notes regarding HP-UX 11i Technical Computing OE Media

Although the two CD-ROMs are "global" and contain all localization choices, there remain 5 different localized kits due to hardcopy documentation (ABA - English/European, ABJ - Japanese, AB1 - Korean, ABO - Chinese (Taiwan), and AB2 - Chinese).

OE CD-ROM #1 contains: Base O/S, Network Drivers, and Ignite-UX.

OE CD-ROM #2 contains: HPUX11i-TCOE Bundle, CDE, Online Diagnostics, and Customer Selectable Software.

Neither OE CD-ROM requires a codeword to access included software.

what the customer
sees on their system**

HPUX11i-TCOE (Includes previously Noted applications)

BUNDLE11i (required OS patch bundle)

HWEnable11i (always installed for HWE)

perl

OnlineDiag (Online Diagnostics)

FibrChan1-00 (FibreChannel Tachlite, PCI)

FDDI-00 (FDDI, PCI)

RAID-00 (SCSI RAID, PCI)

GigEther-00 (Gigabit Ethernet PCI, HSC)

All 10 CDE Bundles

HPUXBaseAux
DMI&SCR Partition Manager
EMS Framework Software Distributor
ObAM5 Judy Libraries Libraries

HPUXBase64 or HPUXBase32

*Network Driver cards (hardware) ordered separately (not shown).

**Minimal 11i TCOE Install shown; customer may select all other available products for installation in the same session. Bundle names visible on customer system are underlined. HP recommends installing an OE as the "base" for any 11i-based (version B.11.11) Software Solution.

what the customer
sees on a sales order*

Available HP-UX 11i Enterprise OE License Products if purchasing OE with System

All Classes except Superdome (tier-based licensing)
B9090AA HP-UX Enterprise OE LTU

Superdome (per processor licensing)
B9090AC HP-UX Enterprise OE LTU 1 CPU

Available HP-UX 11i Enterprise OE License Products if purchasing OE without System

All Classes except Superdome (tier-based licensing)
B9091AA HP-UX Enterprise OE LTU

Superdome (per processor licensing)
B9091AC HP-UX Enterprise OE LTU 1 CPU

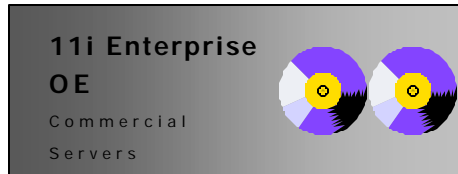
Available HP-UX 11i Enterprise OE Media

B7993AA HP-UX Enterprise OE Media for Servers

Available HP-UX Documentation Products

See existing localized 11.0 Documentation products.

what the customer
sees on CD-ROM media



Important Notes regarding HP-UX 11i Enterprise OE Media

Although the two CD-ROMs are "global" and contain all localization choices, there remain 5 different localized kits due to hardcopy documentation (ABA - English/European, ABJ - Japanese, AB1 - Korean, AB0 - Chinese (Taiwan), and AB2 - Chinese).

OE CD-ROM #1 contains: Base O/S, Network Drivers, and Ignite-UX.

OE CD-ROM #2 contains: HPUX11i-OE-Ent Bundle, HPUX11i-OE Bundle, CDE, Online Diagnostics, and Customer Selectable Software.

Neither OE CD-ROM requires a codeword to access included software.

Customer may use the Enterprise Media to install the Enterprise or the 11i OE Bundles.

what the customer
sees on their system**

HPUX11i-OE-Ent (Includes previously noted application products)
Perl

BUNDLE11i (required OS patch bundle)

HWEnable11i (always loaded for HWE)

perl

OnlineDiag (Online Diagnostics)

FibrChan1-00 (FibreChannel Tachlite, PCI)

FDDI-00 (FDDI, PCI)

RAID-00 (SCSI RAID, PCI)

GigEther-00 (Gigabit Ethernet PCI, HSC)

CDE-English

HPUXBaseAux
DMI&SCR Partition Manager
EMS Framework Software Distributor
ObAM5 Judy Libraries Libraries

HPUXBase64 or HPUXBase32

*Network Driver cards (hardware) ordered separately (not shown).

**Minimal 11i Enterprise OE Install shown; customer may select all other available products for installation in the same session. Bundle names visible on customer system are underlined. HP recommends installing an OE as the "base" for any 11i-based (version B.11.11) Software Solution.

what the customer
sees on a sales order*

Available HP-UX 11i Minimal Technical OE
License Products if purchasing OE **with System**

All Classes except Superdome (tier-based licensing)
B6846AA HP-UX MTOE LTU

(per processor licensing)
B6846AC HP-UX MTOE LTU 1 CPU

Available HP-UX 11i Minimal Technical OE
License Products if purchasing OE **without System**

All Classes except Superdome (tier-based licensing)
B6847AA HP-UX MTOE LTU

(per processor licensing)
B6847AC HP-UX MTOE LTU 1 CPU

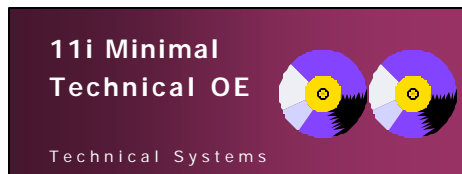
Available HP-UX 11i Minimal Technical OE Media

B6845AA HP-UX MTOE Media

Available HP-UX Documentation Products

B2355GA HP-UX 11i English manuals
B2355GD HP-UX 11i German manuals
B2355GF HP-UX 11i French manuals
B2355GJ HP-UX 11i Japanese manuals

what the customer
sees on CD-ROM media



Important Notes regarding HP-UX 11i
Technical Computing OE Media

Although the two CD-ROMs are "global" and contain all localization choices, there remain 5 different localized kits due to hardcopy documentation (ABA - English/European, ABJ - Japanese, AB1 - Korean, ABO - Chinese (Taiwan), and AB2 - Chinese).

OE CD-ROM #1 contains: Base O/S, Network Drivers, and Ignite-UX.

OE CD-ROM #2 contains: HPUX11i-MTOE Bundle, CDE, Online Diagnostics, and Customer Selectable Software.

Neither OE CD-ROM requires a codeword to access included software.

what the customer
sees on their system**

HPUX11i-MTOE
3D Graphics Developers Kit and Runtime Env
Netscape Comm. (v4.75)
Perl

BUNDLE11i (required OS patch bundle)

HWEnable11i (always loaded for HWE)

perl

OnlineDiag (Online Diagnostics)

FibrChan1-00 (FibreChannel Tachlite, PCI)

FDDI-00 (FDDI, PCI)

RAID-00 (SCSI RAID, PCI)

GigEther-00 (Gigabit Ethernet PCI, HSC)

All 10 CDE Bundles

HPUXBaseAux
DMI&SCR Partition Manager
EMS Framework Software Distributor
ObAM5 Judy Libraries Libraries

HPUXBase64 or HPUXBase32

*Network Driver cards (hardware) ordered separately (not shown).

**Minimal 11i MTOE Install shown; customer may select all other available products for installation in the same session. Bundle names visible on customer system are underlined. HP recommends installing an OE as the "base" for any 11i-based (version B.11.11) Software Solution.

hp-ux 11i
oes

hp-ux 11i operating environment bundle names and bundle contents

Customer Selectable Bundles common
to all OEs

Customer Selectable Bundles common
to Commercial Server OEs only

<u>FibrChanI-00</u> (FibreChannel Tachlite, PCI)	<u>TokenRing-00</u> (TokenRing, PCI)	<u>ATM-00</u> (ATM, PCI)	<u>FDDI-00</u> (FDDI, PCI)
<u>GigEther-00</u> (Gigabit Ethernet PCI, HSC)	<u>TokenRing-01</u> (TokenRing, HP-PB)	<u>ATM-01</u> (ATM, HSC/EISA)	<u>FDDI-01</u> (FDDI, HSC)
<u>100BaseT-00</u> (100Base-T, EISA)	<u>TokenRing-02</u> (TokenRing, EISA)	<u>RAID-00</u> (SCSI RAID, PCI)	<u>FDDI-02</u> (FDDI, HP-PB)
<u>100BaseT-01</u> (100Base-T, HP-PB)	<u>HyprFabrc-00</u> (HyperFabric, PCI/HSC)	<u>TermIO-00</u> (PCI MUX)	<u>FDDI-03</u> (FDDI, EISA)
<u>OnlineDiag</u> (Online Diagnostics)	<u>J4258BA</u> (Netscape Directory Server)	<u>TermIO-01</u> (EISA MUX)	<u>BUNDLE11i & HWEnable11i (OS patches) Always Inst.</u>
<u>perl (perl) Always Installed</u>	<u>B5725A*</u> (Ignite-UX, all versions)	CDE Bundles**	

<u>J4274AA</u> (WebQoS Peak Pkg Ed)

HPUXBaseAux
DMI&SCR
EMS Framework
ObAM5
Partition Manager
Software Distributor
Judy Libraries
Libraries

HPUX11i-OE
Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Comm. (v4.75)
PAM Kerberos
ServiceControl Manage

HPUX11i-OE-Ent
EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager
Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Comm. (v4.75)
PAM Kerberos
ServiceControl Manager

HPUX11i-OE-MC
ECM Toolkit
MC/ServiceGuard (v11.09)
ServiceGuard NFS
Workload Manager
EMS HA Monitors
MirrorDisk/UX
Online JFS (v3.3)
OV GlancePlus Pak (English)
OV GlancePlus Pak (Japanese)
Process Resource Manager
Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
Java JPI
Java Runtime Env (v1.2)
Netscape Comm. (v4.75)
PAM Kerberos
ServiceControl Manager

HPUX11i-TCOE
3D Graphics DevKit/RTE
Netscape Comm. (v4.75)
Apache Web Server
CIFS/9000 Server
CIFS/9000 Client
FirstSpace VRML Viewer
Java 3D
Java JPI
Java Runtime Env (v1.2)
MLIB
MPI
PAM Kerberos
Visualize Conference

HPUX11i-MTOE
3D Graphics
Netscape Comm. (v4.75)

HPUXBase64 HPUXBase32

*Individual Ignite-UX associated bundles also available: Ignite-UX-11-11, Ignite-UX-11-00, Ignite-UX-10-20.
**10 CDE Bundles reside on all OE 2nd CD-ROM media: CDE-English, CDE-French, CDE-German, CDE-Italian,
CDE-Japanese, CDE-Korean, CDE-ChineseS, CDE-Spanish, CDE-Swedish, and CDE-ChineseT.



base

Swlist of Base installation

```
# Bundle(s):  
#
```

```
BUNDLE11i          B.11.11.0102.2 Required Patch Bundle for HP-UX 11i, February 2001  
CDE-English        B.11.11          English CDE Environment  
FDDI-00            B.11.11.01      PCI FDDI;Supptd HW=A3739A/A3739B;SW=J3626AA  
FibrChanl-00      B.11.11.03      PCI FibreChannel;Supptd HW=A5158A  
GigEther-00       B.11.11.14      PCI/HSC GigEther;Supptd HW=A4926A/A4929A/A4924A/A4925A;SW=J1642AA  
HPUXBase64        B.11.11          HP-UX 64-bit Base OS  
HPUXBaseAux       B.11.11          HP-UX Base OS Auxiliary  
HWEEnable11i     B.11.11.0106.8 Hardware Enablement Patch Bundle for HP-UX 11i Series 700/800  
OnlineDiag        B.11.11.00.04   HPUX 11.11 Support Tools Bundle  
Perl              B.11.11          Perl  
RAID-00           B.11.11.00      PCI RAID; Supptd HW=A5856A
```

Back



Base with
selectables

Swlist of Base Installation + Selectables

Bundle(s):
#

```
100BaseT-01      B.11.11.01      HP-PB 100BaseT;Supptd HW=A3495A;SW=J2759BA
ATM-00           K.11.11         PCI ATM;Supptd HW=A5483A/A5513A/A5515A/J3557A;SW=J3572AA/J3572BA
ATM-01           K.11.11         HSC ATM;Supptd HW=J2468A/J2469A/J2499A/J3420B/J3573A;SW=J2806CA
B5725AA         B.3.3.91        HP-UX Installation Utilities (Ignite-UX)
BUNDLE11i       B.11.11.0102.2  Required Patch Bundle for HP-UX 11i, February 2001
CDE-English     B.11.11         English CDE Environment
FDDI-00         B.11.11.01      PCI FDDI;Supptd HW=A3739A/A3739B;SW=J3626AA
FDDI-01         B.11.11.01      HSC FDDI;Supptd HW=A3723A/A3722A; SW=J3629BA/J3701BA
FDDI-02         B.11.11.01      HPPB FDDI;Supptd HW=J2157B;SW=J2658BA
FibrChan1-00    B.11.11.06      PCI/HSC FibreChannel;Supptd HW=A6684A,A6685A,A5158A
GigEther-00     B.11.11.14      PCI/HSC GigEther;Supptd
HW=A4926A/A4929A/A4924A/A4925A;SW=J1642AA
HWEEnable11i    B.11.11.0109.4  Hardware Enablement Patch Bundle for HP-UX 11i Series 700/800
HPUXBase64      B.11.11         HP-UX 64-bit Base OS
HPUXBaseAux     B.11.11.0106    HP-UX Base OS Auxiliary
HyprFabrc-00    B.11.11.01      PCI/HSC HyperFabric; Supptd
HW=A6092A/A4921A/A4920A/A4919A/A6386A
Ignite-UX-10-20 B.3.3.91        HP-UX Installation Utilities for Installing 10.20 Systems
Ignite-UX-11-00 B.3.3.91        HP-UX Installation Utilities for Installing 11.00 Systems
Ignite-UX-11-11 B.3.3.91        HP-UX Installation Utilities for Installing 11.11 Systems
J4258BA         B.04.11         Netscape Directory Server v4 for HP-UX
J4274AA         B.01.02.06      HP WebQoS Peak Packaged Edition
OnlineDiag      B.11.11.03.06   HP-UX 11.11 Support Tools Bundle, Jun 2001
Perl            B.11.11         Perl
RAID-00         B.11.11.01      PCI RAID; Supptd HW=A5856A
TermIO-00       B.11.11.02      PCI MUX; Supptd HW=J3592A/J35923A; SW=J3596A
TokenRing-00    B.11.11.01      PCI Token Ring;Supptd HW=A5783A/A4930A;SW=J1644AA
```

Back





Swlist of Mission Critical OE + Selectables

Bundle(s):
#

100BaseT-01	B.11.11.01	HP-PB 100BaseT;Supptd HW=A3495A;SW=J2759BA
ATM-00	K.11.11	PCI ATM;Supptd HW=A5483A/A5513A/A5515A/J3557A;SW=J3572AA/J3572BA
ATM-01	K.11.11	HSC ATM;Supptd HW=J2468A/J2469A/J2499A/J3420B/J3573A;SW=J2806CA
B5725AA	B.3.3.91	HP-UX Installation Utilities (Ignite-UX)
BUNDLE11i	B.11.11.0102.2	Required Patch Bundle for HP-UX 11i, February 2001
CDE-English	B.11.11	English CDE Environment
FDDI-00	B.11.11.01	PCI FDDI;Supptd HW=A3739A/A3739B;SW=J3626AA
FDDI-01	B.11.11.01	HSC FDDI;Supptd HW=A3723A/A3722A; SW=J3629BA/J3701BA
FDDI-02	B.11.11.01	HPPB FDDI;Supptd HW=J2157B;SW=J2658BA
FibrChan1-00	B.11.11.06	PCI/HSC FibreChannel;Supptd HW=A6684A,A6685A,A5158A
GigEther-00	B.11.11.14	PCI/HSC GigEther;Supptd HW=A4926A/A4929A/A4924A/A4925A;SW=J1642AA
HWEnable11i	B.11.11.0109.4	Hardware Enablement Patch Bundle for HP-UX 11i Series 700/800
HPUX11i-OE-MC	B.11.11.0106	HP-UX Mission Critical Operating Environment Component
HPUXBase64	B.11.11	HP-UX 64-bit Base OS
HPUXBaseAux	B.11.11.0106	HP-UX Base OS Auxiliary
HyprFabrC-00	B.11.11.01	PCI/HSC HyperFabric; Supptd HW=A6092A/A4921A/A4920A/A4919A/A6386A
Ignite-UX-10-20	B.3.3.91	HP-UX Installation Utilities for Installing 10.20 Systems
Ignite-UX-11-00	B.3.3.91	HP-UX Installation Utilities for Installing 11.00 Systems
Ignite-UX-11-11	B.3.3.91	HP-UX Installation Utilities for Installing 11.11 Systems
J4258BA	B.04.11	Netscape Directory Server v4 for HP-UX
J4274AA	B.01.02.06	HP WebQoS Peak Packaged Edition
OnlineDiag	B.11.11.03.06	HPUX 11.11 Support Tools Bundle, Jun 2001
Perl	B.11.11	Perl
RAID-00	B.11.11.01	PCI RAID; Supptd HW=A5856A
TermIO-00	B.11.11.02	PCI MUX; Supptd HW=J3592A/J35923A; SW=J3596A
TokenRing-00	B.11.11.01	PCI Token Ring;Supptd HW=A5783A/A4930A;SW=J1644AA
TokenRing-01	B.11.11.01	HPPB Token Ring;Supptd HW=J2166B;SW=J2250B

Back



hp-ux 11i operating environments

license/media cpl product numbers

commercial servers

11i Mission Critical Operating Environment

Tier-Based License Products

B9092AA HP-UX Mission Critical OE LTU (w/system)
B9093AA HP-UX Mission Critical OE LTU (w/o system)
B9094AA HP-UX Mission Critical OE Upgrade from Enterprise

Per-Processor-Based License Products

B9092AC HP-UX Mission Critical OE LTU 1 CPU (w/system)
B9093AC HP-UX Mission Critical OE LTU 1 CPU (w/o system)
B9094AC HP-UX Mission Critical OE Upgrade from Enterprise

Media Product

B7994AA HP-UX Mission Critical OE Media for Servers

11i Enterprise Operating Environment

Tier-Based License Products

B9090AA HP-UX Enterprise OE LTU (w/system)
B9091AA HP-UX Enterprise OE LTU (w/o system)

Per-Processor-Based License Products

B9090AC HP-UX Enterprise OE LTU 1 CPU (w/system)
B9091AC HP-UX Enterprise OE LTU 1 CPU (w/o system)

Media Product

B7993AA HP-UX Enterprise OE Media for Servers

11i Operating Environment

Tier-Based License Products

B9088AA HP-UX OE LTU (w/system)
B9089AA HP-UX OE LTU (w/o system)

Per-Processor-Based License Products

B9088AC HP-UX OE LTU 1 CPU (w/system)
B9089AC HP-UX OE LTU 1 CPU (w/o system)

Media Product

B3920EA HP-UX OE Media for Servers

technical servers and workstations

11i Technical Computing Operating Environment

Tier-Based License Products

B6822AA HP-UX TCOE LTU (w/system)
B6823AA HP-UX TCOE LTU (w/o system)

Per-Processor-Based License Products

B6822AC HP-UX TCOE LTU 1 CPU (w/system)
B6823AC HP-UX TCOE LTU 1 CPU (w/o system)

Media Product

B6821AA HP-UX TCOE Media

11i Minimal Technical Operating Environment

Tier-Based License Products

B6846AA HP-UX MTOE LTU (w/system)
B6847AA HP-UX MTOE LTU (w/o system)

Per-Processor-Based License Products

B6846AC HP-UX MTOE LTU 1 CPU (w/system)
B6847AC HP-UX MTOE LTU 1 CPU (w/o system)

Media Product

B6845AA HP-UX MTOE Media

Note: Please see ordering instructions/menus for information on available and required product options.