

MODELS

Compaq ProLiant Clusters for UnixWare U/ML330 Kit

155370-B22

The U/ML330 kit is designed to enable two node ProLiant ML330-based clusters in a Cross Node Mirrored configuration. The kit includes Quick Install CDs and Caldera software media for rapid and simplified installation in approximately one hour.

Note: Clusters built from the U/ML330 Kit require UnixWare 7.1.1 and NonStop Clusters 7.1.1+IP software license keys; the licenses must be purchased separately from a Caldera reseller or distributor.

The added ProLiant Clusters for UnixWare NonStop Clusters Verification and UPS Power Management Utilities, cluster interconnect cables, cluster install guide, and cluster configuration poster provide the customer with the tools for a rapid and successful configuration and installation.

OVERVIEW

Description

Compaq ProLiant Clusters for UnixWare 7 - U/ML330 Kit is designed for a two-node ProLiant ML330-based, high availability cluster configuration. The U/ML330 Kit supports clusters with the Ethernet IP cluster interconnect and Cross Node Mirrored reliable storage. The kit includes a unique Quick Install package with an installation wizard, ML330-specific installation poster and cluster install guide, Ethernet IP cluster interconnect and cluster integrity cables, and UnixWare 7.1.1 and NonStop Clusters 7.1.1+IP media kits- all designed for a quick and simplified installation in approximately one hour.

The kit is ideal for entry-level applications, replicated sites, and customers with limited, on-site, computer expertise. Compaq ProLiant Clusters for UnixWare 7 - U/ML330 Kit and Compaq hardware are combined with Caldera's UnixWare 7.1.1 Operating System and NonStop Clusters 7.1.1+IP software, all provided by Compaq. Caldera software license keys must be purchased separately from a Caldera reseller or distributor. This two-node cluster solution is offered in a tower configuration with an optional rack conversion kit. A wide variety of options are supported, including disk, tape backup, network interface controllers, and remote management.

STANDARD FEATURES

Rapid and Simplified Installation

The U/ML330 Kit includes one Quick Install CD per node for rapid and simplified installation. The necessary software is contained on the set of Quick Install CDs, including UnixWare 7 and NonStop Clusters 7 already configured for immediate cluster boot.

Note: UnixWare 7.1.1 and NonStop Clusters 7.1.1+IP software license keys are purchased separately from a Caldera reseller or distributor.

An installation wizard is provided, allowing customer-specific parameters and input of operating and cluster software licenses. A cluster install guide, install poster, and cluster verification utilities provide additional tools for successful configuration, installation, and operation.

Maximum Availability, Minimum Cost

Because Compaq ProLiant Clusters are built from industry-standard components, Compaq delivers high levels of application availability at a much lower cost than traditional, proprietary cluster solutions. The ProLiant ML330 offers the latest technology at the most affordable price. With the addition of two ML330 servers each with a 9.1-GB or higher hard disk drive, the cluster kit includes all the hardware and software necessary to configure a ProLiant Cluster for UnixWare. The Compaq ProLiant Clusters for UnixWare 7 - U/ML330 Kit utilizes the very economical Ethernet IP cluster interconnect and Cross Node Mirroring reliable storage options. No cluster interconnect hardware is required as the Ethernet controller provided with ML330 server is supported, and the required interconnect cables are included in the kit. The Cross Node Mirroring provides completely redundant and reliable storage, and only one hard drive per server is necessary to implement this storage solution.

Integrated Solutions

All Compaq ProLiant Clusters integrate hardware and software to provide a total solution. The solution brings industry-leading cluster technology to industry-standard servers for the UNIX community. Compaq ProLiant servers, interconnect options, system management software, configuration flexibility, and implementation documentation have all been thoroughly tested in cluster configurations.

Sophisticated Cluster Management

In addition to the Quick Install CDs, all Compaq ProLiant Clusters for UnixWare 7 utilize Compaq SmartStart and Compaq Insight Manager software to further enable simplified installation, configuration, and management.

COMPAQ

COMPONENTS

Servers

The U/ML330 Kit supports two ProLiant ML330 servers, each with a 9.1-GB or higher hard drive; the two servers must be identical.

Cluster Interconnect

The Compaq ProLiant Clusters for UnixWare 7 - U/ML330 Kit offers a direct Ethernet IP cluster interconnect. The Ethernet IP interconnect cable included in the U/ML330 Kit and the Ethernet provided with the ProLiant ML330 are used for the interconnect hardware. The Ethernet IP cluster interconnect is configured as a private network on its own subnet. A second physical Ethernet connection is required for the public local area network (LAN).

Public LAN

If adding a public LAN controller, a Compaq NC3123 Fast Ethernet Wake-on-LAN (WOL) NIC must be installed in each server prior to the cluster Quick Install. The Quick Install will automatically configure this controller. Additional or different Ethernet controllers may be installed after the Quick Install.

Storage

Cross Node Mirroring reliable storage is included with every cluster configured with the U/ML330 Kit. The Cross Node Mirroring option mirrors the internal drives in the two nodes, providing a reliable storage option. It requires only one 9.1-GB or higher internal hard disk drive per server and a UnixWare Mirroring Option or Online Disk Manager license. After the Quick Install, additional internal drives may be added to increase storage capacity. A tape back up drive per server node may even be added to generate a third copy of the data.

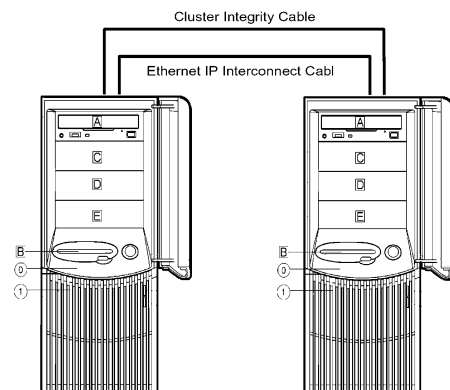
Supported Operating Systems

Clusters built for the U/ML330 Kit require Caldera UnixWare 7.1.1 and NonStop Clusters 7.1.1+IP software. Please contact your local Caldera reseller or distributor to obtain the software licenses, or see the following URL for a Caldera reseller or distributor closest to you:

<http://www.sco.com/partners/locator/>.

Compaq ProLiant Clusters for UnixWare 7 - U/100 Kit Contents

- Compaq ProLiant Clusters for UnixWare 7 U/ML330 Quick Install CDs
- Compaq ProLiant Clusters for UnixWare 7 U/ML330 Install Guide ([in English](#))
- Cluster Verification and UPS Power Management Utilities (included on the Quick Install CDs)
- Compaq ProLiant Clusters for UnixWare 7 NonStop Clusters U/ML330 Configuration Poster ([in English](#))
- UnixWare 7.1.1 Compact Media Kit ([in English](#))
- NonStop Clusters 7.1.1+IP Media Kit ([in English](#))
- Cluster Integrity Serial Cable (12 FT)
- Ethernet IP Cluster Interconnect Cable (12 FT)
- Cluster Node Labels



Non-Hot Plug Drive Cage

A	1.44-MB Diskette Drive
B	32X or 40x Max IDE CD-ROM
C, D, E	Removable Media Bays (1.6" each)
0, 1	Two 1" Non-Hot Plug Drive Bays

REQUIRED COMPONENTS

Cluster Kit	Note: One kit is required per cluster.	
	Compaq ProLiant Clusters for UnixWare 7 - U/ML330 Kit	155370-B22
Servers	Note: Any two identical ProLiant ML330 servers are required for each cluster.	
	Model ML330T01 P667-256KB, 64MB 9.1GB	171469-xx2
	Note: The ML330T01 P667-256KB, 64MB 9.1GB (PN 171469-xx2) has been discontinued.	
	Model ML330T01 P733-256KB, 64MB	157797-xx1
	Note: The ML330T01 P733-256KB, 64MB (PN 157797-xx1) has been discontinued.	
	Model ML330T01 P733-256KB, 64MB 9.1GB	157797-xx2
	Note: The ML330T01 P733-256KB, 64MB 9.1GB (PN 157797-xx2) has been discontinued.	
	Model ML330T01 P800-256KB, 64MB	171569-xx1
	Note: The ML330T01 P866-256KB, 64MB (PN 175951-xx1) has been discontinued.	
	Model ML330T01 P800-256KB, 64MB 9.1GB	171569-xx2
	Note: The ML330T01 P866-256KB, 64MB 9.1GB (PN 175951-xx2) has been discontinued.	
	Model ML330T01 P933-256KB, 128MB	160209-xx1
	Note: The ML330T01 P933-256KB, 128MB (PN 160209-xx1) has been discontinued.	
	Model ML330T01 P933-256KB, 128MB 9.1GB	160209-xx2
Note: The ML330T01 P933-256KB, 128MB 9.1GB (PN 160209-xx2) has been discontinued.		
Model ML330T01 P1000-256KB, 128MB	161411-xx1	
Model ML330T01 P1000-256KB, 128MB 9.1GB	161411-xx2	
Server Country Code Key	xx =00	U.S.
	xx =01	Australia
	xx =02	EURO
	xx =03	UK
	xx =04	Germany
	xx =05	France
	xx =29	Japan
	xx =37	APD
	xx =AA	PRC
Cluster Interconnect	Note: The U/ML330 Kit uses the ML330's embedded NC3163 Fast Ethernet controller and the U/ML330 Kit's Ethernet IP interconnect cable for the cluster interconnect; no additional cluster interconnect hardware is required. The Ethernet IP cluster interconnect is configured as a private network on its own sub-net. A second physical Ethernet connection is required for the public LAN.	
	Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL	Embedded
Communications	Note: If a public LAN controller is desired, a Compaq NC3123 Fast Ethernet NIC WOL (174830-B21) must be installed in each server prior to the cluster Quick Install. The Quick Install will automatically configure this controller. Additional or different Ethernet controllers (per those listed below) may be used after the Quick Install.	
	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
	Compaq NC3133 Fast Ethernet 100 FX Upgrade Module for the NC3134 and NC3131	338456-B25
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Upgrade Module	138604-B21
	Compaq NC6132 Gigabit 1000 SX Upgrade Module	338456-B23
	Compaq NC6134 Gigabit NIC 64 PCI 1000SX	174818-B21

REQUIRED COMPONENTS *(continued)*

Internal Hard Drives	Note: The U/ML330 Kit supports internal Cross Node Mirroring (CNM). A UnixWare 7 Mirroring Option or Online Data Manager license is required to enable CNM. Contact a Caldera distributor or reseller to obtain the license. One 9.1-GB or higher internal hard drive is required per server. After the Quick Install, additional drives may be added to increase storage capacity.	
	9.1GB Wide Ultra3 SCSI 10,000 rpm Drive 1"	142672-B21
	18.2GB Wide Ultra3 SCSI 10,000 rpm Drive 1"	142674-B21
	36.4GB Wide Ultra3 SCSI 10,000 rpm Drive 1"	176497-B21

OPTIONS

Internal Storage Options	Integrated Single Channel Wide Ultra2 SCSI Adapter	Internal
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter (Japan)	154457-291
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291

Memory	Note: Each server must have at least 64-MB of memory and the memory level must be identical between the two servers.	
	64-MB PC133-MHz Registered ECC SDRAM Memory Kit	128276-B21
	128-MB PC133-MHz Registered ECC SDRAM Memory Kit	128277-B21
	256-MB PC133-MHz Registered ECC SDRAM Memory Kit	128278-B21
	512-MB PC133-MHz Registered ECC SDRAM Memory Kit	128279-B21

Internal Tape Drives	Note: If installing a vendor-supplied database, it is recommended that it be run on the server that contains the tape drive.	
	Internal 12/24-GB DAT Drive (Opal)	295513-B22
	Internal 12/24-GB DAT Drive (Opal) (Japan)	295513-292
	Internal 20/40-GB DAT DDS-4 Tape Drive	157769-B21

External Tape Drives	Note: If installing a vendor-supplied database, it is recommended that it be run on the server that contains the tape drive.	
	External 20/40-GB DAT DDS-4 Tape Drive	157770-001
	External 20/40-GB DAT DDS-4 Tape Drive (Int'l)	157770-B31
	External 20/40-GB DAT DDS-4 Tape Drive (Japan)	157770-291

Management Options	Remote Insight Lights-Out Edition (NA, LPD)	157866-001
	Remote Insight Lights-Out Edition (EURO)	157866-021
	Remote Insight Lights-Out Edition (Int'l)	157866-371

Monitors	P720 CRT Monitor Two-Tone (Carbon/Silver)	244373-xxx
	P920 CRT Monitor Two-Tone (Carbon/Silver)	244375-xxx
	P1220 CRT Monitor Two-Tone (Carbon/Silver)	244374-xxx
	V570 CRT Monitor Two-Tone (Carbon/Silver)	228113-xxx
	V570 Color Monitor	228114-xxx
	V720 CRT Monitor (Opal)	232943-xxx
	V720 CRT Monitor Two-Tone (Carbon/Silver)	232944-xxx
	S920 CRT Monitor (Opal)	240325-xxx
	S920 CRT Monitor Two-Tone (Carbon/Silver)	240326-xxx

OPTIONS *(continued)*

Monitors <i>(continued)</i>		
S720 Color Monitor (Opal) (Lite-On)		239286-xxx
Note: Available in North America, Canada, and Greater China only		
S720 Color Monitor Two-tone (Carbon/Silver) (Lite-On)		239287-xxx
Note: Available in North America, Canada, and Greater China only		
S720 Color Monitor (Opal) (Samsung)		238992-xxx
Note: Available in APD, Latin America, EMEA, and Japan only		
S720 Color Monitor Two-tone (Carbon/Silver) (Samsung)		238993-xxx
Note: Available in APD, Latin America, EMEA, and Japan only		
Flat Panel TFT5030 Color Monitor Two-Tone (Carbon/Silver)		228134-xxx
Flat Panel TFT5015 Color Monitor (Opal)		234043-xxx
Flat Panel TFT5015 Color Monitor Two-Tone (Carbon/Silver)		234044-xxx
Flat Panel TFT7020 Color Monitor Two-tone (Carbon/Silver)		253216-xxx
Flat Panel TFT8030 Color Monitor Two-tone (Carbon/Silver)		234362-xxx

CRT Country Code Key

NORTH AMERICA (NA) / LATIN AMERICA (LA)

Dash #	Description
-001	NA Kit with U.S. Power Cord
-002	Carbon model with U.S. Power Cord
-003	Touch Screen model with U.S. Power Cord
-004	NAFTA model with U.S. Power Cord (Made in Mexico)
-005	NA Kit with Powered Speakers
-006	GSA model with U.S. Power Cord
-007	NH MPR model with U.S. power cord (Made in Mexico)
-B24	TCO model without power cord (Digital Classic)
-201	EH model for Brazil (older Brazil models used -B29)
-202	EH model for Brazil Carbon (older Brazil models used -B29)
-C91	EH model for Mercosur countries
-C92	EH model for Mercosur countries (Carbon)
-B29	EH/ALADI model for Latin America

[Note: All NA/LA models above are NH.](#)

EUROPE, MIDDLE EAST AND AFRICA (EMEA)

Dash #	Description
-021	NH/TCO with Eurocord (DCE Hub)
-022	NH/MPR with Eurocord (DCE Hub) (India)
-023	NH Carbon model with Eurocord (DCE Hub)
-024	NH Touch Screen model with Eurocord (DCE Hub)
-025	NH Kit with Speakers and Eurocord
-A91	NH/TCO without power cord (Dubai hub)
-A92	NH/MPR without power cord (Dubai hub)
-031	NH/TCO with UK Cord (UK Hub)
-032	NH/MPR with UK Cord (UK Hub)
-033	NH/TCO carbon with UK Cord
-035	NH Kit with Speakers and UK Cord
-B21	SH/MPR without power cord (S. Africa Hub)
-B23	SH/TCO without power cord (S. Africa Hub)
-B27	SH/TCO Carbon without power cord (S. Africa Hub)

OPTIONS (continued)

CRT Country Code Key (continued)

PACIFIC/AUSTRALIA (APD)

Dash #	Description
-B22	NH/MPR without power cord
-B24	NH/TCO without power cord
-B25	EH Carbon model without power cord
-B26	NH Touch Screen model without power cord
-011	SH model with AUZ/NZ power cord
-015	SH model with speakers AUZ/NZ power cord
-012	SH Carbon model with AUZ/NZ power cord
-AD1	NH model for Korea
-AD2	NH Carbon model for Korea
-B28	EH model without power cord
-B35	EH model with speakers no power cord (Singapore)

GREATER CHINA (GCD)

Dash #	Description
-AA1	NH/China Kit with CCIB label (Local Sales)
-AA2	NH/Carbon China Kit with CCIB label (Local Sales)
-KA1	NH/China Kit with CCIB label (External Sales/Bundles in HK)
-AB1	NH/Taiwan kit, made in Taiwan

JAPAN (CKK)

Dash #	Description
-291	NH/Japan Kit with 3-2 pin adapter
-292	NH Carbon Japan Kit with 3-2 pin adapter

TFT Country Code Key

EUROPE, MIDDLE EAST & AFRICA (EMEA)

Dash #	Description
-021	Europe
-031	UK

NORTH AMERICA

Dash #	Description
-001	NA
-B24	All NA/LA models

APD

Dash #	Description
-011	Australia/NZ

JAPAN (CKK)

Dash #	Description
-291	Japan

OPTIONS *(continued)*

Uninterruptible Power Systems - Tower	UPS Model T700 (700 VA, 500 Watt), Low Voltage (NA)	204015-001
	UPS Model T700 (700 VA, 500 Watt), High Voltage (Int'l)	204015-B31
	UPS Model T700 (700 VA, 500 Watt), Low Voltage (Japan)	204015-291
	UPS T1000 (100 to 127 VAC)	242688-001
	UPS T1000h (208 to 240 VAC) (Int'l)	242688-002
	UPS T1500 (100 to 127 VAC)	242588-003
	UPS T1500h (208 to 240 VAC) (Int'l)	242688-004
	UPS T1500j (100 to 127 VAC) (Japan)	242688-293
	UPS T2000 (100 to 127 VAC)	242688-005
	UPS T2000 (100 to 127 VAC) (Japan)	242688-295
	High to Low Voltage Transformer (250 VA)	388643-B21

ML330 Hardware Service and Support Options (CarePacs)	Hardware Services 4-Hour On-site Service	
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (2-5-2 Part Number for U.S.)	FM-EL4HR-36
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-EL4HR-36
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	162676-002
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for Canada)	162676-122
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for EMEA)	324416-002
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (2-5-2 Part Number for U.S.)	FM-EL724-36
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-EL724-36
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	162675-002
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for Canada)	162675-122
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for EMEA)	376910-022
	Installation & Start-up Services	
	Hardware Installation (2-5-2 Part Number for U.S.)	FM-ELINS-IN
	Hardware Installation (2-5-2 Part Number for Canada)	FP-ELINS-IN
	Hardware Installation (6-3 Part Number for U.S.)	401791-002
	Hardware Installation (6-3 Part Number for Canada)	401791-122
	Hardware Installation (6-3 Part Number for U.S.)	Quote
	O/S & Hardware Installation (2-5-2 Part Number for U.S.) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	FP-CXHSI-01
	O/S & Hardware Installation (6-3 Part Number for U.S.) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	160557-002
	O/S & Hardware Installation (6-3 Part Number for EMEA) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	Quote

Note: Certain restrictions and exclusions apply. For more information, customers and resellers can consult www.Compaq.com/services or contact the Compaq Customer Support Center at 1-800-345-1518.