

## HP Parallel Database Cluster for Windows Sample Configuration

- 2 X 4640 4 processor Integrity servers
- EVA3000 Storage Array
- Fully redundant IO paths

This document shows the basic building blocks necessary for implementing a valid Parallel Database Cluster solution for Oracle RAC. This is not intended to be a comprehensive proposal. It is simply an example of the basic server and storage components required. Contact and authorized Hp reseller for a comprehensive proposal.

### Detailed Bill Of Materials (BOM)

Server nodes		
Quantity	Part Number	Description
2	AB370B	HP Integrity rx4640 Base System Solution
2	AB370B-001	Upgrade Core I/O to Smart Array 6402
8	A9731A	HP rx4640 Itanium 2 1.5GHz 4MB CPU
2	A6968A	2GB DDR memory quad (4 x 512MB)
2	A9738B	16DIMM mem carrier board, 4U chassis
4	A9897A	73GB 15K HotPlug Ultra320 LP disk drive
2	A7163A	DVD drive (read only) for 4U chassis
2	T2373A	Windows Server 2003 LTU Enterprise Ed.
2	T2373A -0D1	Factory integrated
2	T2373A ABA	U.S. - English localization
2	A6977A	Rack Kit for 4U chassis
2	HA104A3	HP CP 3Y 4h 24x7 HW
2	HA104A3-6CQ	Integrity rx4640 Chassis Only Support
8	HA104A3-6GA	CPU for hp rx4640 Support
EVA 3000 Storage		
Quantity	Part Number	Description
1	325584-888	EVA3K CTO Flag Storage
2	322118-B21	StorageWorks SAN Switch 2/16
1	344822-B21	eva3K 2C2D-C CTO 8x72 GB/15k ALL
1	344819-B21	5314 FC Drive Enclosure

04/27/2005

8	293568-B23	FC HDD INT CTO 72G 15K Fact
2	AA978A	HP StorageWorks SAN switch 2/16V
10	221692-B22	5m SW LC/LC FC Cable ALL
10	221470-B21	2Gb SFF-SW Trncvr Kit ALL
4	AB466A	2Gb PCI-X DC 64 bit FC HBA for Windows

**Management server (OV Storage Operation Mgr requires a system running Win server 2003 Ent Edition)**

Quantity	Part Number	Description
1	367007-405	HP DL360R04 SCSI RED MOD-FX US Chassis
1	354582-L21	Intel X3.4GHz/800-1MB DL360G4 FIO Base
1	354582-B21	Intel X3.4GHz/800 1MB DL360G4 Processor
2	358348-B21	HP 1G REG PC2700 SGLDMM Memory
2	286776-B22	HP 36GB 15K U320 Pluggable Hard Drive
1	264007-B21	HP Slim 8X/24X DVD-ROM Drive
2	281541-B21	FCA2214 2Gb FC HBA for Linux and Windows
1	339778-B21	HP Raid 1 Drive 1 Setting
1	345167-B21	MS Windows 2003 Svr Std FIO LTU
1	U4497A	7 x 24 4 hour Coverage, 3 Years

**Software**

Quantity	Part Number	Description
	Non-HP	Oracle Software and licenses
	Non-HP	Windows 2000/2003 Adv Server for Management server O/S
1	T3268AA	OVSOM v1.2 media
1	T3270AA	OVSOM EVA3000 LTU
4	165989-B25	Secure Path v4.0C for Windows one license
1	T3588B	HP StorageWorks VCS V3.0d media kit

**Cluster Interconnect**

Quantity	Part Number	Description
1	263474-B23	CAT5 cables 12FT (8 per pack)
1	J4817A	ProCurve Switch 2312
4	A9900A	Win/Linux 2 port 1000Base-T Giga Adptr

04/27/2005

<b>Rack Parts</b>		
Quantity	Part Number	Description
1	A4902D	HP Rack System/E, 41U, graphite color
1	A5213DZ	HP Rear Door for 41U graphite rack
4	A5137AZ	Modular Power Dist. Unit for std racks
4	A5137AZ A5F	1ST 240V US Power UPS PDU (L6-30P, 2.5m)
<b>Services</b>		
Quantity	Part Number	Description
1	HA533AE	HP Start-up for PDC RAC