



## Scientific Computing Associates and HP team up to provide Distributed Computing Development Utilities for Productivity Workers on HP ProLiant Servers and BladeSystems

Scientific Computing Associates, Inc. (SCAI) and HP have certified SCAI's Paradise® distributed/parallel programming environment on HP ProLiant Cluster Platforms. SCAI and HP ProLiant clustered bundle offerings provide a certified cluster solution based on HP ProLiant DL rack mounted and BL Blade dense computing servers based on RHEL3, RHEL4, Novell SuSE SLES8, SLES9, and Microsoft Windows Server 2003.

As industry standard compute multi-core processors and clusters are becoming more available and affordable, the lack of parallel applications and the difficulty of distributed computing systems management have become a concern. Using Paradise a wide range of applications can take advantage of these scalable distributed/parallel computing configurations. Paradise easily automates and accelerates parametric studies, where the same application is executed many times with multiple sets of input parameters. These applications can be executed in a compute cluster or across a wide range of machines, including both desktops and servers, using the distributed computing agents and facilities that Paradise provides along with its easy to use command library. Moreover, using Paradise, these agents can share data and coordinate themselves to provide for general purpose parallel computing without requiring message passing.

With Paradise, users are able to simply submit jobs to Paradise's resource manager and come back for results, while Paradise takes care of execution details in between. Easy to deploy and operate with simple command line installation and deployment steps, Paradise is optimized for cluster operation by providing self-configuring and self-managing features. This thereby reduces the cost to set up and administer a cluster or a distributed configuration of machines. The industry-standard HP Cluster Platform with Paradise can be integrated easily in the IT infrastructure without network or administrative disruption.

### Product features include:

- \* **Application performance acceleration** - Run applications parametrically on multiple processors automatically. Share and manage processing resources across your organization while maintaining full inter-departmental control. Processors can share data and self coordinate.
- \* **Integration** - Paradise® is designed to be integrated easily with existing applications in C or Java. Paradise's API supports a wide range of application development.
- \* **Automation** - Paradise provides complete scheduling tools for automated runtime environments and fail-over functionality for guaranteed results.
- \* **Resource Management** - Administers computing resources and runs networks at peak efficiency.
- \* **Flexibility** - Very low overhead on system resources, yet still provides full features that can be tailored to each individual environment
- \* **Mixed Environments** - Works flawlessly with heterogeneous environments, supports Windows and/or Linux operating environments and all major hardware platforms

### Target Customers:

- Enterprises interested in creating high-performance versions of applications.
- Enterprises interested in integrating software components to create distributed composite applications.
- Enterprises where IT consolidation is being considered to improve information utilization across enterprise organizations.
- Where distributed application environments need a coordinated management approach to manage IT investment and improve application performance and time to decisions.
- Where IT centralization is not attainable due to geographic dispersion.
- Enterprises interested in fault-tolerant parallel applications.

### Sample Configurations:

16 Node Rack Mount Cluster			16 Node Blade Cluster		
Qty	SKU	Description	Qty	SKU	Description
<b>Head Node</b>			<b>Head Node</b>		
1	399684-001	HP DL385G1 2400 DC US Svr	1	399684-001	HP DL385G1 2400 DC US Svr
1	399692-B21	HP O280 2.4/1000-1M DC DL385G1 Kit	1	399692-B21	HP O280 2.4/1000-1M DC DL385G1 Kit
4	376639-B21	HP 2GB Reg PC3200 2x1GB Memory	4	376639-B21	HP 2GB Reg PC3200 2x1GB Memory
2	286714-B22	HP 72GB 10K U320 Pluggable Hard Drive	2	286714-B22	HP 72GB 10K U320 Pluggable Hard Drive
<b>Compute Nodes</b>			<b>Compute Nodes</b>		
16	390845-001	HP DL145R02 2200 DC 2G SCSI US Svr	16	392439-B21	HP BL25p 2.2Ghz-1M DC 2G 2P Svr
16	391782-B21	HP O275 2.2/1000HT-1M DL145G2 DC Kit	16	376639-B21	HP 2GB Reg PC3200 2x1GB Memory
16	376639-B21	HP 2GB Reg PC3200 2x1GB Memory	16	286778-B22	HP 72GB 15K U320 Pluggable Hard Drive
16	332751-B21	HP 72GB 10K U320 Non-Hot Plug Hard Drive	<b>Rack, Switch Cables, Blade Enclosure, PDU</b>		
<b>Rack, Switch Cables and PDU</b>			2	243564-B22	HP BLp Enhanced Enclosure
1	245163-B22	HP 10622 22U Shock Rack Pallet	4	378926-B21	Cisco BLp Ethernet Switch
1	J4903AZ	HP Procurve 2824 GigE Switch	1	380314-B21	HP BLp 1U Pwr Encl w/2 Pwr Spplly Kit
1	J4899B#ABA	Procurve 2650 10/100 Switch	2	252663-D74	HP 24A HV Core Only Corded PDU
2	356578-B21	1U Switch Rail Kit, 10K Series Rack Mount	1	245163-B22	HP 10622 22U Shock Rack Pallet
2	263474-B22	CAT 5E Cable (US), 6 FT, 8 Per Pack	1	J4903AZ	HP Procurve 2824 GigE Switch
1	263474-B23	CAT 5E Cable (US), 12 FT, 8 Per Pack	1	356578-B21	1U Switch Rail Kit, 10K Series Rack Mount
1	221546-001	HP TFT5600RKM Integ 1U US KeyBrd&Monitor	1	221546-001	HP TFT5600RKM Integ 1U US KeyBrd&Monitor
2	252663-B24	HP 16A High Voltage Modular PDU	1	263474-B22	CAT 5E Cable (US), 6 FT, 8 Per Pack
<b>OS and Applications</b>			<b>OS and Applications</b>		
1	382355-B21	SUSE SLES9 3-16 cpu 1Yr Base 8pk ET/Opt	1	382355-B21	SUSE SLES9 3-16 cpu 1Yr Base 8pk ET/Opt
1	382357-B21	SUSE SLES9 3-16 cpu 1Yr Add on Base 8pk ET/Opt	1	382357-B21	SUSE SLES9 3-16 cpu 1Yr Add on Base 8pk ET/Opt
1	398379-B21	SCAI Paradise Ag Base 1yr Support-4Node	1	398379-B21	SCAI Paradise Ag Base 1yr Support-4Node
12	399710-B21	SCAI Paradise Agent 1yr Support-Add Node	12	399710-B21	SCAI Paradise Agent 1yr Support-Add Node
1	398377-B21	SCAI Development Toolkit Document	1	398377-B21	SCAI Development Toolkit Document
<b>Total Hardware and OS \$118,705.00</b>			<b>Total Hardware and OS \$147,160.00</b>		

For more information, contact your HP representative, or contact SCAI at [sales@lindaspaces.com](mailto:sales@lindaspaces.com)