

Scientific Computing Associates and HP team up to provide Parallel Statistics using parallelR™ for Productivity Workers on HP ProLiant Servers and BladeSystems

SCAI and HP have certified the parallelR high performance computational statistical language and environment on HP ProLiant Cluster Platforms. SCAI and HP provide certified cluster solutions based on HP ProLiant DL rack mounted and BL Blade Servers based on RHEL3, RHEL4, Novell SUSE SLES8, SLES9, and Microsoft Windows Server 2003.

As industry standard multi-core CPUs and clusters are becoming more available and affordable, the lack of parallel applications and the difficulty of parallel programming has become a problem. Using parallelR as the basic scripting toolkit offers a wide range of statistics that can take advantage of these scalable compute configurations. parallelR provides a scripting facility to automate and accelerates parallel application processing.

** Provides a commercially supported parallel version of the popular R statistical scripting system*

** Allows parallel execution of R applications making it easy to use SMPs and clusters from within the scripting language,*

** Supports Sleigh, which automatically distributes function evaluations across multiple CPU cores in CPU cores and clusters to run in parallel. Sleigh makes it easy for users to write parallel load-balanced programs.*

parallelR is powerful software for using clusters or networks from within R.

** It's easy to learn and use.*

** Looks and feels like a conventional WORKSPACE in the base scripting language*

** Enables network script processes to share data*

** Provides general distributed/parallel script execution*

** Runs network script processes uncoupled or coordinated*

** Increases user productivity in implementing and maintaining distributed applications due to its anonymous communication*

Easy to deploy and operate with simple command line installation and deployment steps, parallelR is optimized for cluster operation by providing self-configuring and self-managing features thereby reducing the cost to setup and administer a cluster. The industry-standard HP Cluster Platform clusters with parallelR can be easily integrated 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.

*** Integration** - designed to be easily integrated with existing R applications.

*** Automation** - provides complete scheduling tools for automated runtime environments and fail-over functionality for guaranteed results.

*** Resource Management** - Administer computing resources and run your network 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, supporting Windows, Unix, and Linux operating environments and all major hardware platforms

parallelR is a powerful, secure, and flexible high performance-computing solution that enables applications to be executed on multiple processors. parallelR offers end-users exponential gain in application performance, while maximizing all compute

Target Customers:

- Users of R who are looking for more standardized commercial support
- Users of R who are interested in high-performance applications and distributed execution
- Where distributed application environments need a coordinated management approach to manage IT investment
- Where laborious repetitive tasks can be automated thru parametric scheduling
- Where a mix of Linux and Windows applications need to be coordinated

Sample Configurations:

16 Node Single Core 2P Compute Farm			16 Node Dual Core 2P Compute Farm		
Qty	SKU	Description	Qty	SKU	Description
Head Node			Head Node		
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
3	376638-B21	HP 1GB Reg PC3200 2x512 Memory	3	376638-B21	HP 1GB Reg PC3200 2x512 Memory
2	286714-B22	HP 72GB 10K U320 Pluggable Hard Drive	2	286714-B22	HP 72GB 10K U320 Pluggable Hard Drive
Compute Nodes			Compute Nodes		
16	377887-001	HP DL145G2 2600 2G SCSI US Rck Svr	16	390845-001	HP DL145R02 2200 DC 2G SCSI US Svr
16	378690-B21	AMD O252 2.6/1GHz HT-1M DL145G2 Kit	16	361040-B21	Slim DVD-ROM Kit DL145 WW
16	376639-B21	HP 2GB Reg PC3200 2x1GB Memory	16	357012-B21	HP 36GB 15K Ultra320 NHP Hard Drive
16	357012-B21	HP 36GB 15K Ultra320 NHP Hard Drive	16	357012-B21	HP 36GB 15K Ultra320 NHP Hard Drive
Rack, Switch Cables and PDU			Rack, Switch Cables and PDU		
1	245163-B22	HP 10622 22U Shock Rack Pallet	2	409312-B21	SLES 9 8-License Value Pack 1YR SW
1	J4903AZ	HP Procurve 2824 GigE Switch	1	245163-B22	HP 10622 22U Shock Rack Pallet
1	356578-B21	HP Procurve Rack Mount Kit	1	J4903AZ	HP Procurve 2824 GigE Switch
1	J4900BZ	HP ProCurve 2626 10/100 Admin Switch	2	356578-B21	HP Procurve Rack Mount Kit
34	C7533A	CAT 5e Cable	1	J4900BZ	HP ProCurve 2626 10/100 Admin Switch
1	221546-001	HP TFT5600RKM Integ 1U US KeyBrd&Monitor	34	C7533A	CAT 5e Cable
1	AF072A	HP 1U 10pk Universal Filler Panel	1	221546-001	HP TFT5600RKM Integ 1U US KeyBrd&Monitor
1	260457-B21	HP Rack 9000/ Rack 10000 Grounding Kit	1	AF072A	HP 1U 10pk Universal Filler Panel
2	252663-B24	HP 16A High Voltage Modular PDU	1	260457-B21	HP Rack 9000/ Rack 10000 Grounding Kit
OS and Applications			OS and Applications		
1	366320-B21	SUSE SLES9 1Yr Base 8pk ET/Opt	2	252663-B24	HP 16A High Voltage Modular PDU
1	366321-B21	SUSE SLES9 1Yr Add-on 8pk ET/Opt	1	366320-B21	SUSE SLES9 1Yr Base 8pk ET/Opt
1	373845-B21	SUSE LX Ent SVR 9 2P 1Y DIB SW	1	366321-B21	SUSE SLES9 1Yr Add-on 8pk ET/Opt
4	399712-B21	SCAI Prtel RI Pro 1st yr Sub/Support- 4 Node	1	373845-B21	SUSE LX Ent SVR 9 2P 1Y DIB SW
Total Hardware and OS \$97,999.00			1	399712-B21	SCAI Prtel RI Pro 1st yr Sub/Support- 4 Node
			Total Hardware and OS \$87,871.00		

For more information, contact your HP representative, or contact SCAI at sales@lindaspaces.com