

Novell Validated Configuration Program for High Performance Computing

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PROGRAM FLYER

More and more organisations are now using High Performance Computing (HPC) to deliver the massive computing power required to support today's data-intensive business applications. They are also increasingly favouring clustered HPC technology based on Linux, in order to take advantage of its flexibility, reliability and low cost when compared with proprietary UNIX infrastructures.

However, the design, implementation and operation of a clustered HPC infrastructure is a complex process involving multiple components, frequently from different suppliers, each of which must interoperate seamlessly to provide mission-critical standards of performance and reliability. Achieving this has, until now, been time consuming, expensive and potentially risky, both when initially configuring and setting up the system and during its operation and maintenance.

Novell and HP now offer a solution that eliminates these problems, enabling organisations to realise the benefits of Linux-based clustered HPC quickly and cost effectively, safe in the knowledge that the chosen solution has already been thoroughly tried and tested, thereby avoiding risk and ensuring a rapid return on investment.

THE NOVELL VALIDATED CONFIGURATION PROGRAM (VCP) FOR HIGH PERFORMANCE COMPUTING

Close co-operation between Novell, HP and many other industry-leading HPC vendors has resulted in the most complete validated solution suite available for High Performance and GRID computing. Within each validated stack all components work seamlessly together. This represents a significant advance over ordinary industry certification programmes that confine themselves to ensuring a particular application or hardware platform performs well in itself – but not necessarily in conjunction with other components.

A full range of solution components is available, both for the creation of the fundamental clustered HPC infrastructure and for the many vertical industry-specific applications that will be deployed on it. The basic building blocks of the VCP infrastructure currently include:

- HP™ servers: HP BladeSystem BL20p, BL25p, BL30p, BL35p blade servers and HP ProLiant DL140, DL145, DL360, DL380, DL385, DL585 servers that combine simplicity and efficiency of design, the low cost of industry standards and enterprise management tools to create an ideal platform for open source and Linux solutions.
- SUSE™ LINUX Enterprise Server 9 - Novell's flagship Linux operating system, with industry leading security, scalability and performance capabilities.
- Scalix™ Manage/MPI Connect, providing infrastructure installation and on-going management
- Altair™ PBS Professional, providing workload management and job scheduling
- Polyserve™ Matrix Server and Cluster Volume Manager, delivering scalable and resilient NFS fileserving
- DataSynapse™ GRIDServer, providing resource management for financial services including cluster solutions
- United Devices™ GRIP MP which provides solutions integration for Life Sciences applications including clusters
- TurboWorx™ Suite Builder, Enterprise Hub and Cluster Manager, which delivers workflow management and application performance
- Meiosys™ MetaCluster HPC, which delivers application virtualization and checkpoint restart
- Axceleon™ Enfuzion, which provides parametric scheduling and job management targeted at Rendering and Power utility computing.

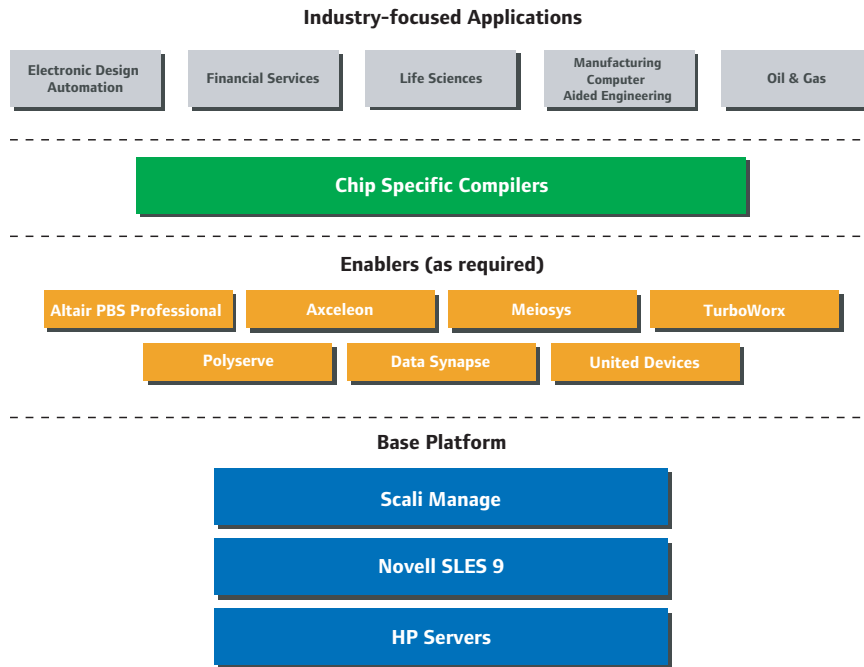
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Novell and HP have integrated and tested these components, enabling us to deliver a wide range of specifically configured and verticalised stacks on Linux. Validated configuration data, including performance test results, recommended configuration information and best practices for deployment are available from Novell, and hardware and software components for each stack are currently available through HP.

Novell/HP Validated Configuration Program for HPC



As a result of the Validated Configuration Program, customers who have previously been held back by confusing installation and operational concerns are now free to take full advantage of HPC on Linux, with a range of fully tested, fully integrated solution stacks from Novell and HP.

For more information on the Novell Validated Configuration Program for High Performance Computing please visit www.novell.com/linux, or contact your local Novell office: www.novell.com/offices

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