

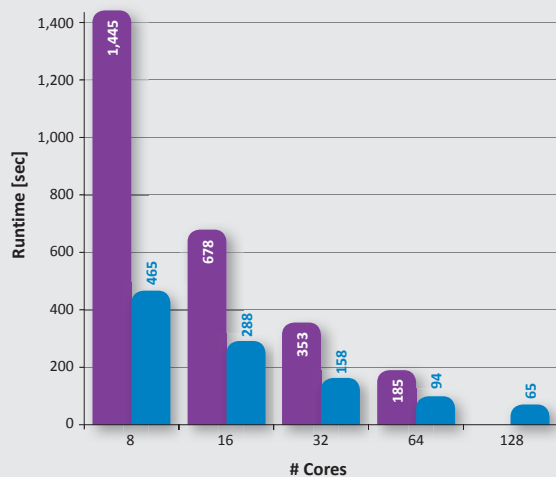
On-demand SMP

The alternative to legacy HPC datacenter architecture

ScaleMP's vSMP Foundation for Cloud applies HPC on-demand architecture to shape the system to the workload. **Versatile SMP™ (vSMP)** architecture enables provisioning of virtual machines on a per-job, per-project or per-customer basis, replacing the limited scalability of dedicated, shared-memory systems.

Performance Data

NASA Cart3D (OpenMP) SSLV (-MG 3)



■ Columbia: SGI Altix (Itanium Montecito @ 1.6GHz, NUMALink4)
■ vSMP Foundation (Xeon X5570 @ 2.93 GHz, IB QDR)

Features

Use same cluster nodes for on-demand SMP Highest CPU capacity

- Enables up to 16,384 CPUs in a single shared memory system

Largest memory footprint

- Enables up to 64 TB RAM

Multiple provisioning systems:

- Adaptive Computing's MOAB
- Bright's Cluster Manager Suite
- IBM's xCAT

For Whom?

- If you have or are creating a datacenter or cloud computing environment with over 64 nodes and serving different types of workloads
- If you have or are creating a centralized HPC computing environment, with differing workloads

Benefits

On-demand computing

- Shape the machine to the workload, rather than the workload to the machine

Cost-effective

- Unified infrastructure for all HPC workloads: distributed memory, shared memory, large memory and I/O-intensive

Decreased TCO and increased utilization

- Support for concurrent, shared-memory systems with "pay-as-you-grow" flexibility

Network installation

- Provides seamless integration with any grid management system

Cluster-like cost structure

Pricing

Starting at \$2,125 per node

On-demand SMP

The alternative to legacy HPC datacenter architecture

vSMP Foundation for Cloud

- Dedicated infrastructure
- Low utilization
- Plan for peak usage



Aggregated by:
vSMP Foundation



- Unified infrastructure
- Pay as you grow
- On-demand computing

More vSMP Foundation Solutions

vSMP Foundation for SMP

Cost-effective, modular software-based SMP solution

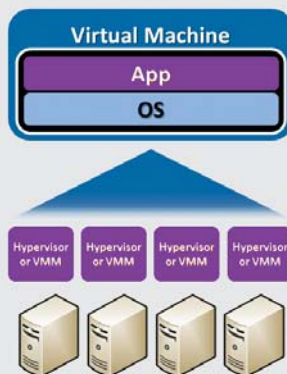
The alternative to proprietary systems

vSMP Foundation for Cluster

Virtualize clusters into one, uncluttered system

The alternative to complex cluster-management solutions

Server Aggregation



Supported Hardware

Appro

- GreenBlade: gB222X

Dell

- PowerEdge Rack Servers: 1950 III, 2950, R410, R610, R710, R910
- PowerEdge C Servers: C6100
- PowerEdge M1000e: M600, M610, M710

HP

- ProLiantBladeSystem: BL460c, BL280c G6¹
- ProLiant DL: HP ProLiant DL580 G7²

IBM

- System x x3450, x3550 M2, x3650 M2, x3850 X5
- System x iDataPlex: dx340, dx360, dx360 M2, dx360 M3
- BladeCenter H: HS21XM, HS22

Intel

- S5400SF: SR1560SF / SR1560SFHS
- S5520US: SR1600UR, SR1625UR, SR2600UR, SR2625UR

Sun

- Sun Blade 6000 Family: X6250, X6270
- Sun Fire Servers: X2270, X4170

Supermicro

- X7DWT-INF / X7DWT-INF+
- X8DTN+
- X8DTT series
- SuperBlade: SBI-7125W-S6

Notes:

¹HP ProLiant BL280c G6: vSMP Foundation for Cloud not supported.

²HP ProLiant DL580 G7: On-board Ethernet not supported. Please add supported NIC.