

High Performance Computing

Keeping Pace

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Customer Challenge



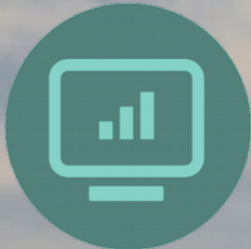
Performance

... increase amid IT budgets and staff reductions



Manage

... as business-critical, but with scientific mind set



Support

... across the entire HPC stack, reducing vendor lock-in



Market Challenge



HPC market still developing



Not a standardized stack



Limited number of generic HPC applications

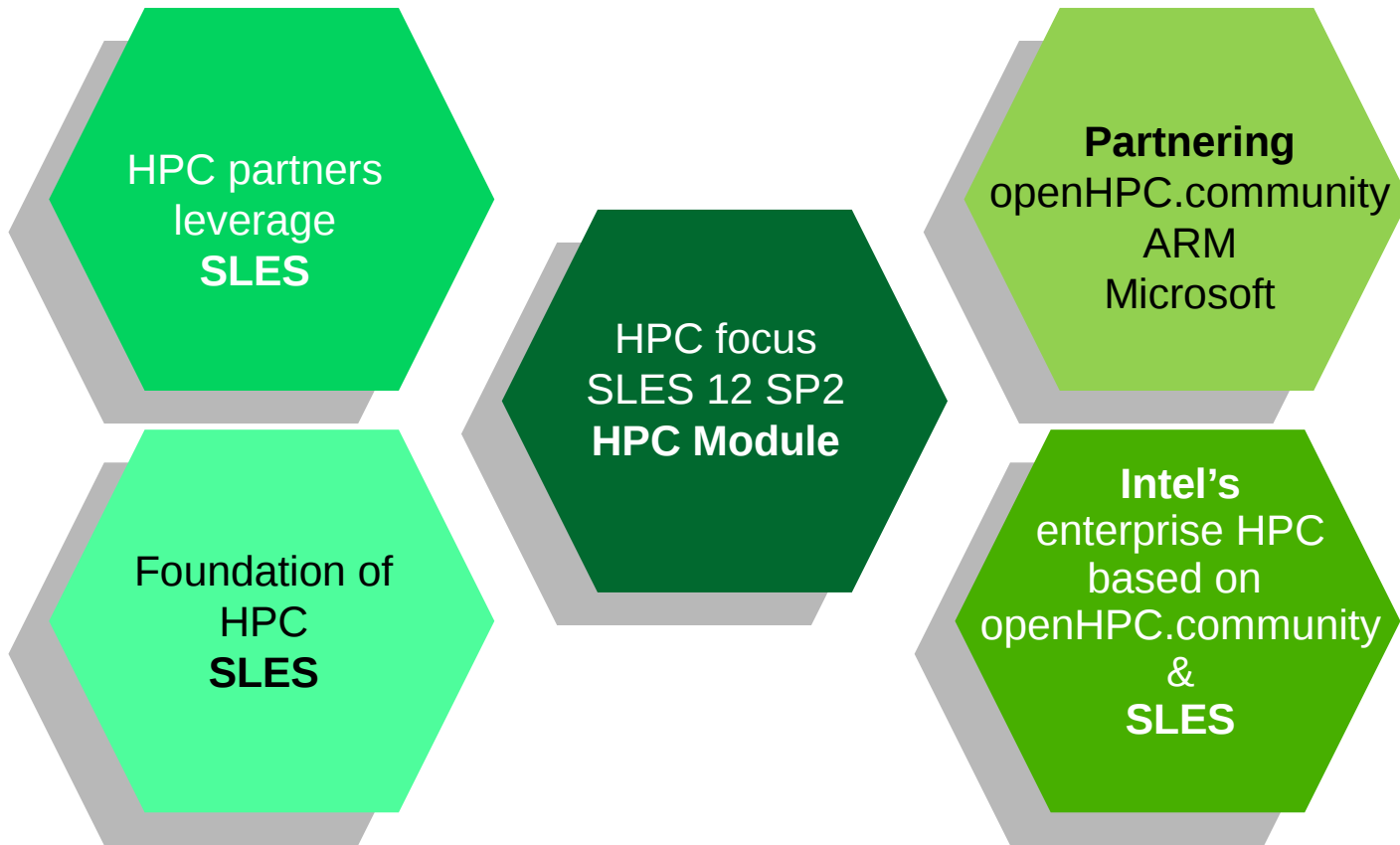


Many vendors and projects to form the stack



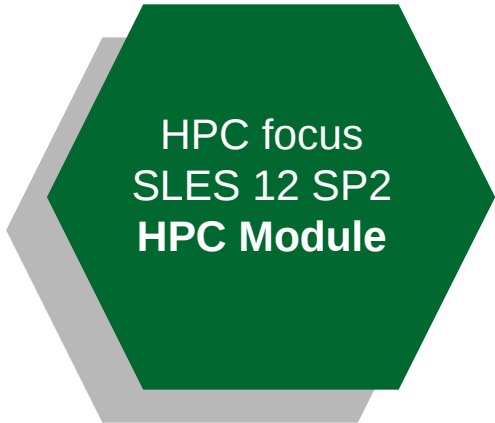
Segmented into commercial and scientific

SUSE HPC Ecosystem



HPC Module

- Packages dedicated to HPC
- Lifecycle towards up-to-date
- Includes leading edge components
- Available for x86_64, ARM in consideration
- Existing packages kept in SLES, adds new packages



HPC focus
SLES 12 SP2
HPC Module

OpenHPC Open Source Community

openhpc.community

- Linux Foundation project – SUSE is founding member
- Provides common platform – standard HPC stack – for collaboration and innovation
- Provides full HPC stack on top of SLES
- Build with SUSE build service
<http://build.openhpc.community>
- Simplifies installation, configuration, and maintenance of the software stack



SUSE within Microsoft Azure



SUSE is the only supported enterprise Linux HPC workload on Microsoft Azure public cloud

It offers cloud-based SLES, including automated updates enterprise customers.

New! SLES for HPC is part of the Microsoft Test Drive program, freely available via the Azure Marketplace



Partnering with Intel

Intel distribute **SUSE Linux Enterprise Server for High Performance Computing** as part of the *Intel HPC Orchestrator*

SUSE is the commercial Linux supported by the Intel HPC stack

- Accelerate research/innovation and time to insight
- Aligns new optimized components driven by the broader **openHPC.community**
- Simplifies ongoing maintenance and support





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