# SUSE HPC Update

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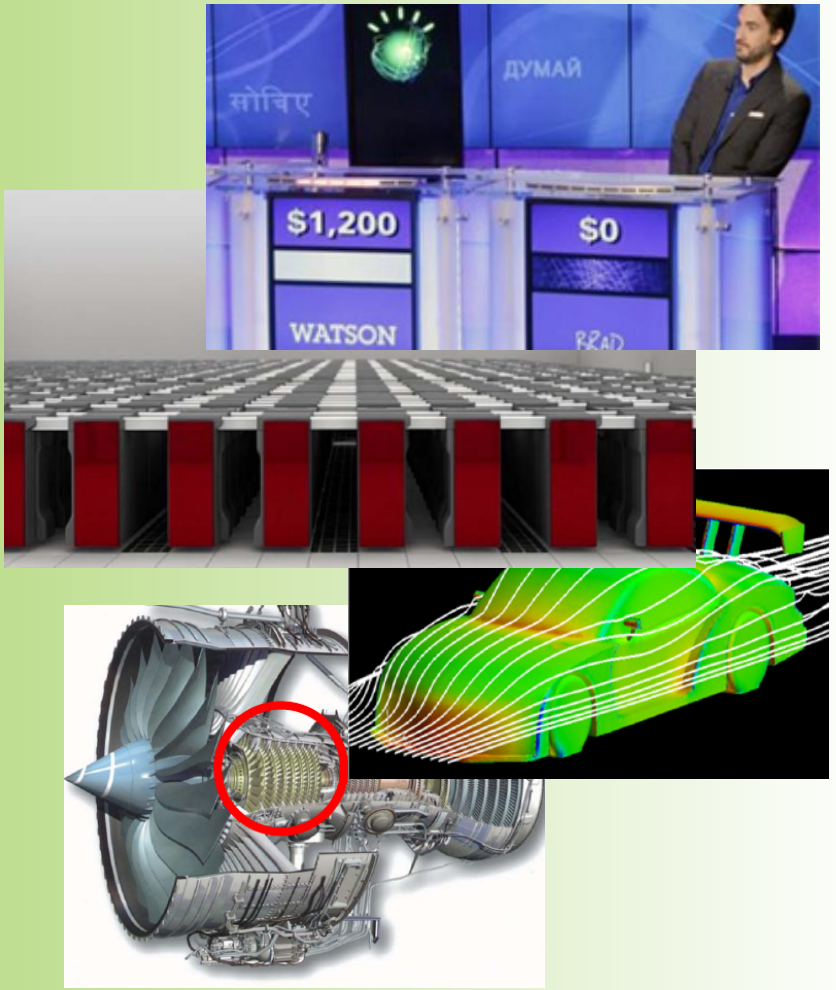
Distribution:PDF only
Not a public document
Date: 2013-04-23




**History** → **Future**

# SUSE – Strong in HPC Market!

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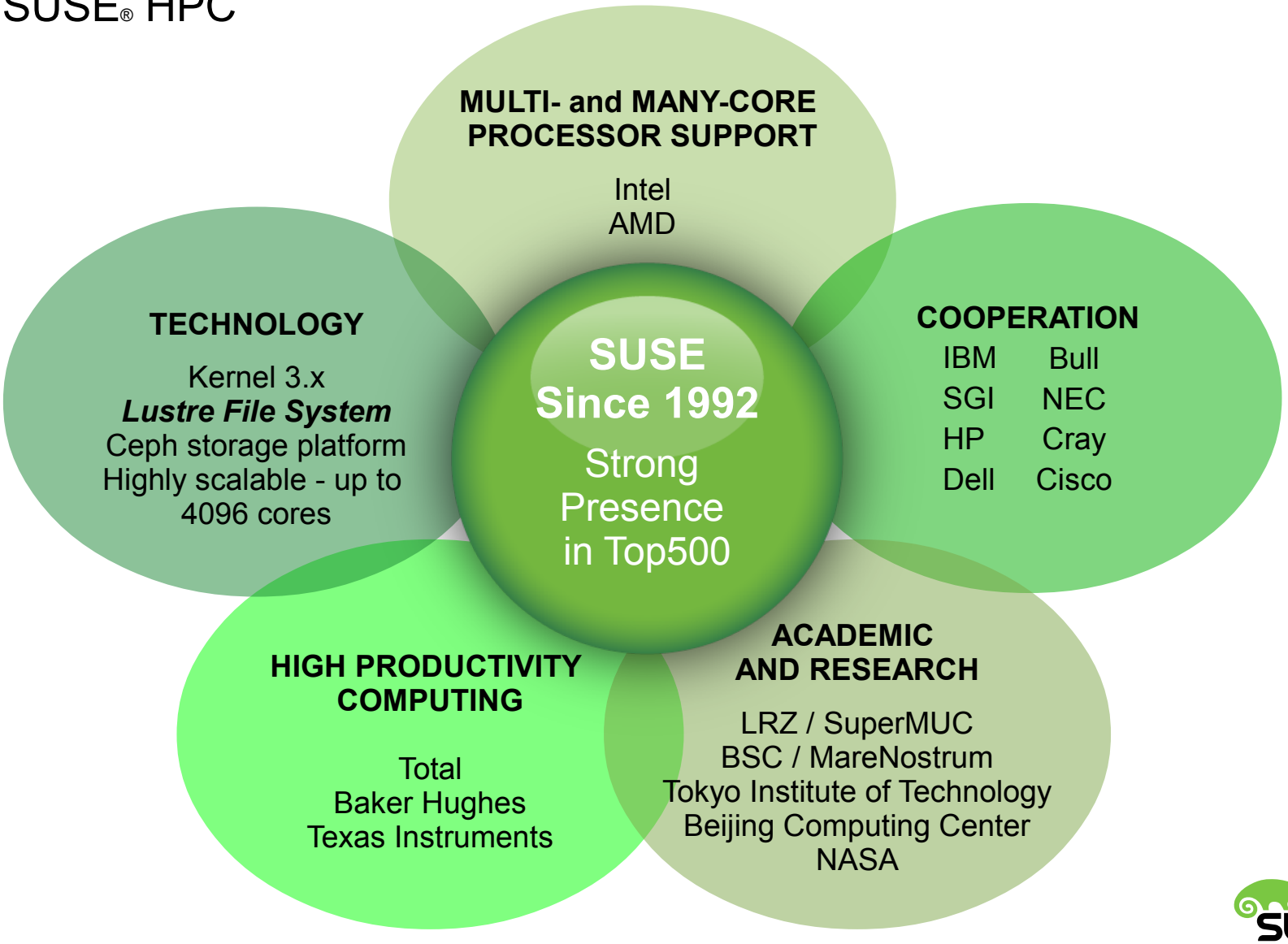

# Challenge I: Commercialization

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- Commercial customer to enter High Productivity Computing
  - Hidden deployments, no benchmarks done/published
  - Just enough performance, time to solve is key
  - Reliability and SLAs are important
  - Data center approach

# Challenge II: Virtualization

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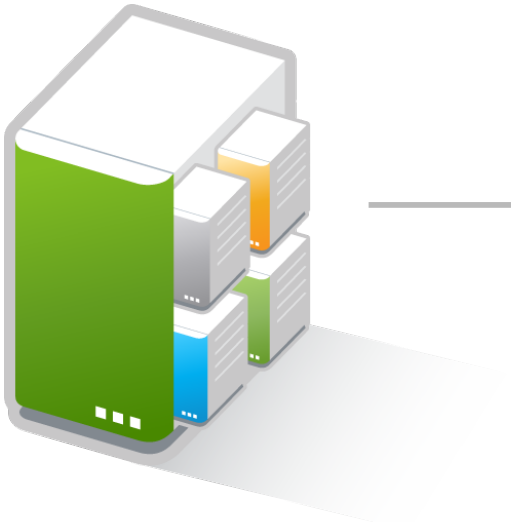
- Adding flexibility and decreasing complexity
  - Simplify systems management
  - Off-line application development
  - Simplified job deployment
  - Integration with cloud and capacity on demand



# Challenge III: Storage

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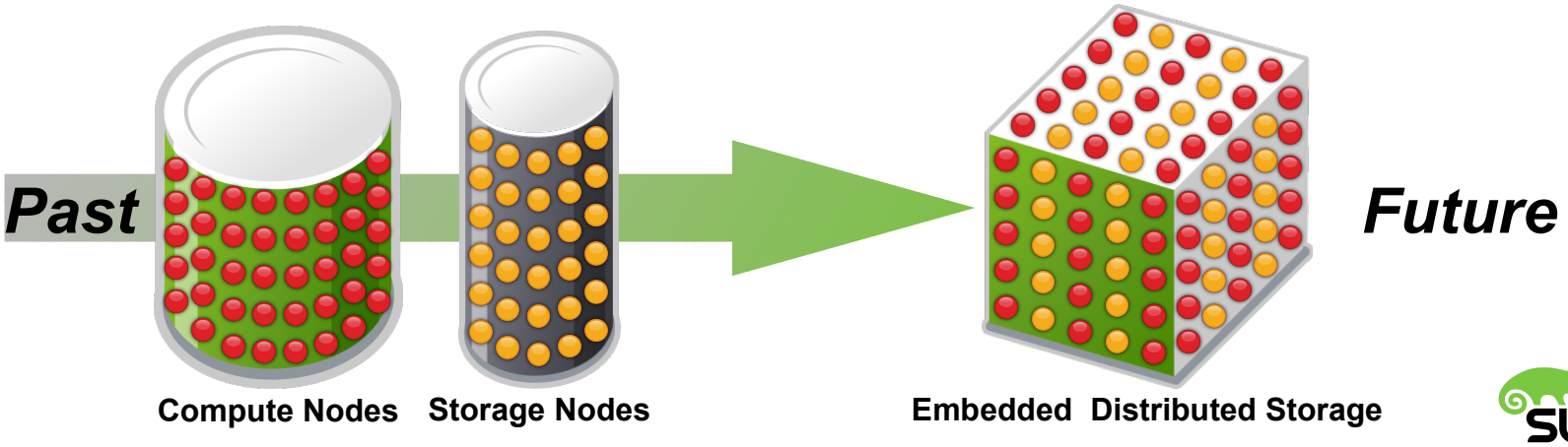
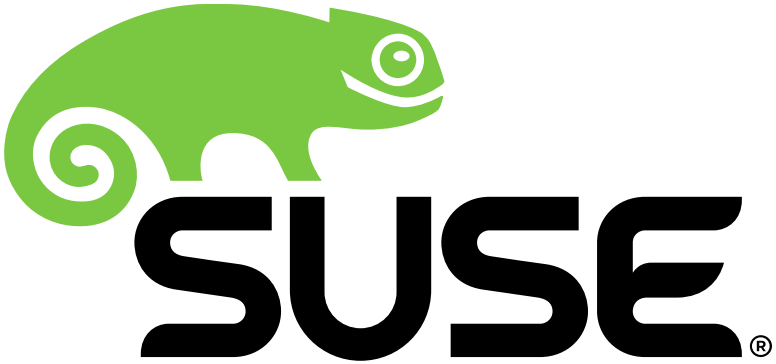
- Move from file system access to object level access
  - Redevelopment of tools and applications
- Embedded distributed storage (e.g. CEPH)
  - End of compute and storage silos
    - CPUs to do what's needed
    - Maximize CPU utilization
    - Maximize return on invest



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