



Summary

Pascal Gallard, Matthieu Fertré, Louis Rilling

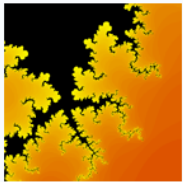




Who are we ?



- Software editor in the HPC area
 - *Linux cluster made easy*



- Leader of an open-source community
 - INRIA, EDF, NEC



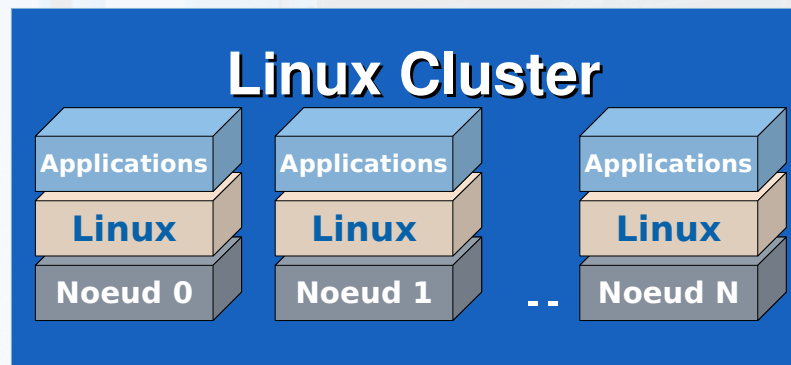
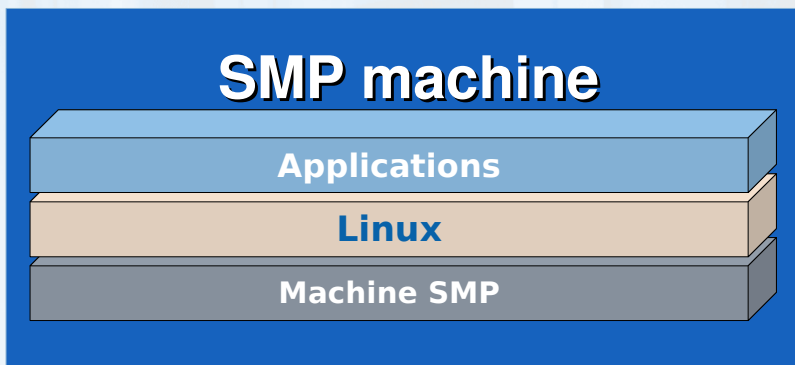
- Kerrighed technology
 - Cluster-aware OS
 - Integrate all HPC related features



- Global cluster management
- Dynamical load balancing (processors / memory, thermal, power)
- Checkpoint / restart support

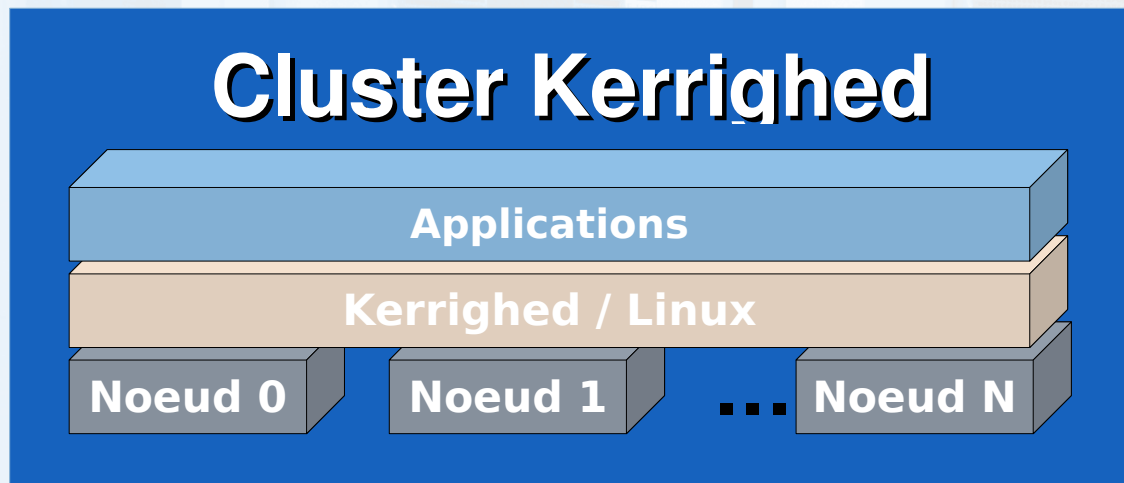


Kerrighed technology



Easy use

Cost effective



Virtual SMP machine !



Kerlabs in PetaQCD

- Primary contribution in the fault-tolerant and high-availability fields
- Involved people:
 - Matthieu Fertré
 - Current designer & developer of a full transparent checkpoint solution
 - Louis Rilling
 - Fault tolerant architect in large scale environment
 - Pascal Gallard
 - Work on “available system”: self-healing mechanism