

XtreemOS

Enabling Linux
for the Grid



A LINUX-BASED OPERATING SYSTEM TO SUPPORT VIRTUAL ORGANIZATIONS FOR NEXT GENERATION GRIDS

SCALABILITY supporting hundreds of thousands of nodes and millions of users dynamically joining and leaving the Grid.

TRANSPARENCY hiding the complexity of the Grid by distributed operating system services allowing to run new and legacy applications seamlessly.

INTEROPERABILITY complying with all major standards such as POSIX and SAGA.

DEPENDABILITY providing reliability & high availability through checkpointing and replication.

SECURITY ensuring trust and integrity according to customizable policies.

APPLICATION EXECUTION MANAGEMENT providing scalable resource discovery and job scheduling for distributed interactive applications.

DATA MANAGEMENT accessing and storing data in XtreamFS, a POSIX-like file system spanning the Grid.

VIRTUAL ORGANIZATION MANAGEMENT building and operating dynamic virtual organizations.



Information Society
Technologies

www.xtreemos.eu

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