

## XtreemOS - Enabling Linux for the Grid

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The overall objective of the EU-funded XtreemOS project ([www.xtreemos.eu](http://www.xtreemos.eu)) is to build and promote an open source Grid operating system. The 4-year project started in June 2006 and involves 19 partners from seven European countries plus China. The XtreemOS consortium composition is a balance between 9 academic and 10 industrial partners.

After the first year of the project the main technical achievements by the XtreemOS consortium are the specification of XtreemOS Foundation and XtreemOS Grid level services; the design and implementation of XtreemOS basic versions Linux-XOS for PC and clusters; based on the requirements from a wide spectrum of applications (biology, aeronautics, economics, ...) and use cases.

The XtreemOS system will provide native support for Virtual Organizations. Based on Linux, XtreemOS will have three different versions capable of running on single PCs, clusters and mobile devices and will provide for the Grid what an OS offers for a single computer: abstraction from the hardware and secure resource sharing between different users.

The first public release of XtreemOS will be available in June 2008. Demo prototypes of individual components will be available even before.

Scientific coordinator: Dr. Christine Morin, IRISA/INRIA, Campus universitaire de Beaulieu, 35 042 Rennes cedex, France (Contact: [xtreemos-info@irisa.fr](mailto:xtreemos-info@irisa.fr)).