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appot - Generic application deployment on a computational Grid

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AppPot is a way to implement generic application deployment on a computational Grid, and especially to enable users to provide their own software to the computing cluster.

AppPot uses User Mode Linux to provide users with a development and running environment they have full control over. User Mode Linux provides a virtualized environment in which users can build and run their own computational applications. AppPot augments this with scripts that can take a copy of the UserModeLinux system image and submit it as a regular computational job using the ARC middleware.

Appot is already used in production within the Swiss National Grid Infrastructure (SMSCG) to support applications from several scientific domains like meteorology and computational chemistry.

Required Facilities

beamer, power cables, wireless internet access

Duration (90min sessions)

20min

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