Grid Checkpointing Features
- Checkpoint and restart a grid job consisting out of more than one job unit
- Identify a kernel checkpoint that can checkpoint/restart relevant resources
- Isolation of multiple job units per grid node using Linux containers
- Secure restart from checkpoint images
- Adaptive grid checkpointing

Common Kernel Checkpointer API

Checkpoint File Management
1) The checkpoints are used by the AEM
   - For fault tolerance
   - For scheduling optimization (migration, suspend)
   - For the working of the system node shutdown (migration)
   - The user should not pay for resources used by the system
   - The disk space needed for the checkpoint must be managed by the AEM
   - By default checkpoints files are deleted when the job is finished
2) The user has special needs
   - He wants to keep some checkpoints of a job
   - He does not want the checkpoints to be deleted at the end of the job
   - The user has to provide the disk space
   - The user describes this disk space at job submission

XtreemOS Checkpointing Partners:

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