

Possible diploma thesis topics

NOTE: Some of these are already (sort of) underway, but with low priority.

Dcache

Interface to dcache [<http://www.dcache.org>] from Unicore5 and Unicore 6

Contact: Rebecca

Philipp: link dcache ↔

Helmholtz-Alliance?

MapReduce

Implement MapReduce [<http://labs.google.com/papers/mapreduce.html>] using UNICORE 6

Contact: Bernd

WSRF groups

Use JGroups to cluster & replicate a WSRF service using WSRFlite or UNICORE 6

Contact: Bernd

XML Spaces

Implement a JavaSpaces like API (with XML documents instead of Java Objects) on WSRFlite or UNICORE 6

The space should of course be replicated over the available servers....

Contact: Bernd

Replication using JVM clustering

Use Terracotta (more [http://www.theserverside.com/news/thread.tss?thread_id=43313]) to cluster JVMs running UNICORE/X together

Contact: Bernd

Port SSH Plugin / create shell access

Port the UNICORE 5 SSH plugin or create an interactive shell using data streaming

Contact: Morris / Bernd

Enhance UNICORE 6 Gateway

Follow up Roger's work on a "multi-protocol" Gateway

Contact: Roger / Bernd

UNICORE/www

grid information services the web way

doing resource management the web way

data management the web way

web-scale security using openid

Grid computing and the contemporary Desktop

etc etc (lots of cool topics possible here)

Contact: Roger

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