

# Cluster distributed dynamic storage

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The HEP department of the University of Manchester has purchased a 1000 nodes cluster. The cluster will be accessible to various VOs through EGEE/LCG grid middleware. One of the interesting aspects of the equipment bought is that each node has 2x250 GB disks leading to a total of approximately 4TB of usable disk space. The space is intended to be managed using dcache and its resilience features. The following describes different dcache configurations and disks and network layout adopted to exploit this space. Different configurations can be used to target different use cases. An alternative method based on http technology will be also described.

## Summary

Use of dcache and http technology to exploit the disk space available on the worker nodes of a large cluster.

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