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# Implementation of MPI

This wikipage was used by Richard de Jong and Matthijs Koot for their "Research Project 2" activities at CERN.

## Documents, final versions

- researchreport.pdf: (FINAL)
- researchreport\_sources.zip: (FINAL)
- presentation\_MPI\_on\_WLCG.pdf: Presentation about implementation of MPI on WLCG
  
- wrapper\_scripts.zip: Wrapper scripts
- sample\_jdl\_files.zip: Sample JDL files
- sft2.zip: SFT tests for MPI

## Sub-topics

- Grid middleware
- MPI
- Our experiments
- Matthijs' thoughts
- Assessing YAIM

## Random notes

- Acronyms and concepts
- "Global Grid Forum (GGF) is the IETF for grid computing"
- Ian Foster [↗](#) and Carl Kesselman are 'fathers' of the grid
- gLite 1.5 released on 2006-01-20, gLite 3.0 released on 2006-05-04
- OpenMPI = OpenMP [↗](#) (OpenMP is shared-mem, OpenMPI distributed-mem)
- Using VOMS (gssh) at JMS-level (i.e. Torque, LSF, ...)? YES! Because the LCG Technical Design Report states:
- From NIKHEF meeting notes may 8 2006: "Oscar sent document to GGF on proposed standard definitions of LDAP strings"

## Useful links

- Grid monitoring tools (e.g. live applets): <http://goc.grid-support.ac.uk/gridsite/monitoring/> [↗](#)
- Grid monitoring (RTM): <http://gridportal.hep.ph.ic.ac.uk/rtm/> [↗](#)
  
- <https://savannah.cern.ch/task/?group=lcooperation> [↗](#)
- <https://uimon.cern.ch/twiki/bin/view/LCGAAWorkbook/WebHome> [↗](#)
- <http://egee-jra1.web.cern.ch/egee-jra1/> [↗](#)
- <http://egee-intranet.web.cern.ch/egee-intranet/EU-documentation/EU%20Review%20Summary%20Final%202006-05-04.pdf> [↗](#)
- <http://egee-intranet.web.cern.ch/egee-intranet/index.html> [↗](#)
- [http://gks05.fzk.de/upload/lectures/Garcia\\_GLite-Introduction.pdf](http://gks05.fzk.de/upload/lectures/Garcia_GLite-Introduction.pdf) [↗](#)
- <http://www2.twgrid.org/tutorial/slides/Grid%20Middleware0601-doug.pdf> [↗](#)
- <http://www.lam-mpi.org/> [↗](#) - currently installed on lxplus hosts
- <https://gus.fzk.de/pages/docu.php> [↗](#) - some docs, see MPInotes.txt
- <http://gridice2.cnaf.infn.it:50080/gridice/site/site.php> [↗](#) - Grid status overview (interactive)
- Review Summary Final 250105.doc [↗](#)

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- CERN's LSF documentation [↗](#)

-- RichardDeJong - 30 Jun 2006

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