

# Proposal for FileList Replacement

Francesco Giacomini

EGEE JRA1 IT-CZ meeting  
Bologna, 12<sup>th</sup> May 2005

# Why?

- FileList code is complex
- Sensitive to file corruptions
- Difficult to manage for an admin

# The alternative

- Idea borrowed from maildir
  - A mail delivery format
  - *<http://cr.yp.to/proto/maildir.html>*
- Each request is a file
- Files are atomically delivered
  - Creation of a file in the *tmp* directory followed by the creation of a hard link in the *new* directory
- Proposed name: jobdir

# Advantages

- No locks
- Corruption of a single request doesn't corrupt the whole set
- Code is simple
- Management is simple
  - ls, rm, etc would do The Right Thing
- Performance (maybe)

# Open issues

- File naming
  - JobId based
  - Timestamp?
  - Request type?
- API
  - Depends on file naming
- NON-Issue:
  - Number of files per directory