

Rereco @ nikhef

The good news

- The D0 s/w can be run on the EDG/LCG cluster
- But it takes time to make it work

How we did it ...

- Create tar files of
 - mc_runjob
 - python v2_1
 - pyxml
 - mcc-dist
- Store tar files on storage element (SE)
- Remember: the grid is terra incognita for D0

How we did it ...

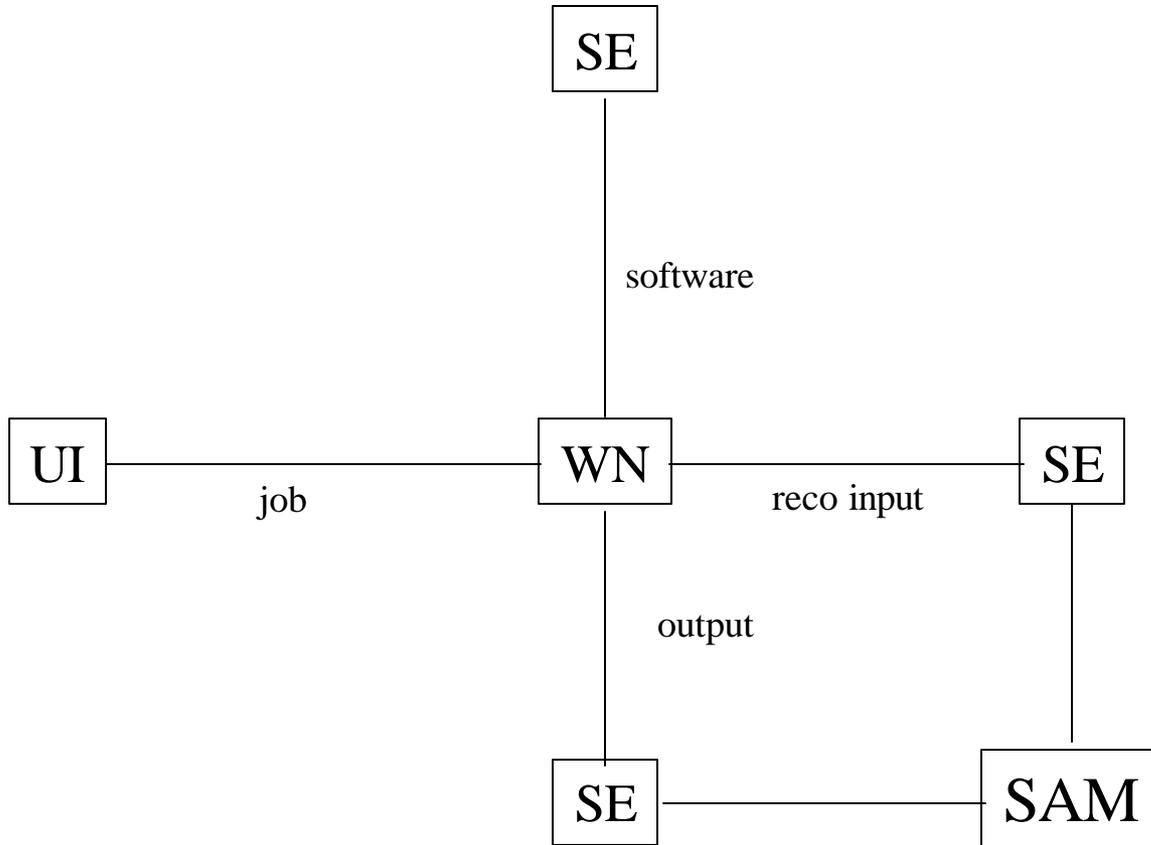
- On SAM station
 - Fetch project
 - Store files on SE
- On User Interface (UI)
 - Submit jobs to grid

How we did it ...

- On worker node (WN)
 - Fetch and untar tar files
 - Get input file from SE
 - Run d0reco
 - Tar output
 - Store output on SE

How we did it

- On SAM station
 - Fetch output from SE (gridftp)
 - Untar
 - Store files on d0mino (bbftp)



Where we did it

- On the nikhef part of the LCG cluster using PBS
 - Certification run
 - 3354 projects
- On LCG using EDG commands
 - Certification run
 - 1 project, which ran at cambridge, in2p3, nikhef, wuppertal

Why 6M events only ?

- Bad performance of SAM
- Instability of nikhef cluster due to reconfiguration
 - Black holes
- Lack of quota
- Cleaning up after a disaster takes a lot of time

What next?

- The nodes of the D0 farm have been moved to LCG
- MCC is being migrated to LCG
- Jeff is working on RGMA, a distributed DBMS

Conclusions

- Rereco can be run on LCG
- Installation takes time
- Something needed for bookkeeping
- Merging will be a problem (this time nicely solved by Mike)
- Reprocessing is difficult anyway
- Separate production and development