



# NAF – use for doing ATLAS analysis

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**Workflow example:** use of private package to run ATLAS physics analysis of data in pool size format and produce flat ntuples to analyse further in Freiburg

- Install analysis framework on NAF user account and run locally in the batch system
  - Run on ~ 100 Mio official produced events
  - Copy on the fly sample file to NAF – Run in batch queue (ttbar ~ 6 h) - Write output via AFS to local storage in Freiburg
  - Job specification: cpu: 12:00:00, vmem= 2.5G, fsize = 4G
  - Output ntuple 40 MB – 100 MB (20000 events)

## Performance – Observations

### pro

- stable and reliable performance
- support by NAF in case of problems
- jobs easy to monitor

### contra

- compilation of Athena package time consuming
- first some problems with slc5 machines, now ok
- no token forwarding to write output in Freiburg

Comment: not run in grid due to package size of ~ 190 MB only with some tricks possible

At the moment re-organisation of the package for better grid usage

**Workflow example:** use of official package to run ATLAS physics analysis of data in pool size format

- Run from Cern or Freiburg and distribute jobs via pathena (ATLAS grid software)
- Stable and reliable performance especially on the DESY site (ZN) but some datasets not in DE cloud → run in other clouds sometimes not always reliable

Thanks for the NAF availability and support