Testing

Report from a first meeting of a 'testing workgroup' with S. Paoli (IT/IPT)

- **Aim:** survey current status, agree on improvement programme, implement in one of the projects (ATLAS or GEANT4) and transfer to other projects

- **Survey of the current status of ATLAS Offline Software Testing**

  document in preparation (http://wwwcn.cern.ch/~paoli/ATLAS_Offline_ATLAS_Offline_TestingSurveyReport.html)

- **Discussion**

  - **ASP rules** (*see* /afs/cern.ch/user/r/rcandlin/public/asp/test-rules.tex and dvi)

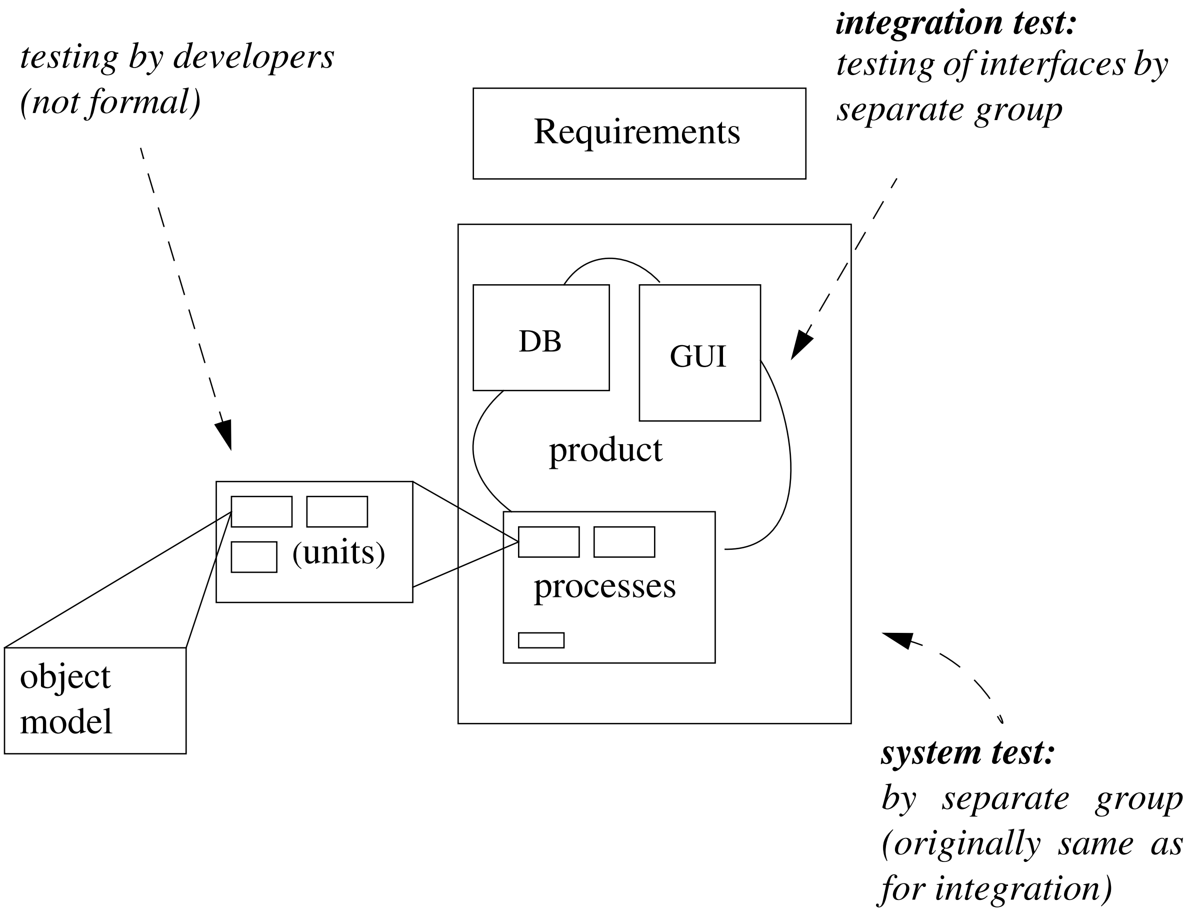
  - **granularity** of testing (i.e. at which level as well as by whom and in what way)
    - unit or component testing by the developers?
    - integration and system testing by (dedicated) team? evaluate 'cost' of testing...

  - **ALEPH experience** (J. Knobloch): testing coordinator and team of community members; quantitative testing of reference histos, set of criteria (speed, memory, error reporting etc); all supported platforms

  - **ATLAS experience** (M. Stavrianakou): for the moment only for production (FORTRAN) software; similar to ALEPH though not yet complete or formalised (logfiles, histos, usability of output)

- **S. Paoli (industry)**: at the beginning small core group but progressively migration of developers; testing definition and criteria stem from requirements and architectural design; testing is regarded as an activity, not a phase => starts right from beginning of project; test plan document (not the same as design document)

Example:



- **Conclusions, decisions and next steps**
    - complete survey report
    - nominate testing coordinator and establish testing group
    - start work on test plan:
      domain decomposition - product decomposition (packages) - integration (= physics) *(cf. S. Paoli's example)*
    - establish/finalise/document unit and package testing procedures in ASP
    - use atlas-asp mailing list (and inform atlas-sw) and create WWW page (top level)
    - next meeting: around next DIG (end June)?