

# Repository and Releases

## Status and Plans

ATLAS Software Workshop

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# Repository status

- Production software (F77, Age, some C++)
  - F77/Age code mostly stable except for (minor) updates in preparation for production release
  - C++ code (mostly in Reconstruction) evolving
- OO/C++ software
  - evolving steadily
  - not all in official release but included in nightly builds
- Some numbers: 137 (45 top level) packages
  - total LOC F77 501 K AGE 93 K C++ 338 K
  - was 303 K

# Supported Platforms

- Supported: HP–UX, ALPHA–DEC, IBM–AIX, LINUX, SUN–SOLARIS
- BUT see  
[/afs/cern.ch/atlas/project/librarian/packages\\_and\\_platforms.txt](/afs/cern.ch/atlas/project/librarian/packages_and_platforms.txt)  
for list of supported platforms for each package
- Should we decide on a few "core" platforms and prepare a "phasing out" plan for the rest?
  - IBM–AIX: support for external software dwindling; re–evaluate need and demand?
  - HP–UX: support at CERN until end 2001 – start phasing out when?
  - ALPHA–DEC: re–evaluate if/when dropped by ATRIG?
- Not supported: SGI (partly supported by Boston), WNT

# Status of releases

- Fortnightly developers' releases:  
32 releases in ~16 months
- Nightly builds
  - FORTRAN software usually builds, failures in OO/C++ software, occasional system/network related failures
  - Could/Should be used by developers for early debugging (esp. with L. Tuura's Build Analyser)
  - Should we aim for successful (on average) nightly builds? How to achieve?

# Status of releases (cont'd)

- Production release
  - Originally planned for June/July after full testing
  - BUT
    - Very little testing has so far been performed
    - Updates are still in progress
    - Need all production executables (dice, dicepyt, atrecon, atlsim, atlfast and maybe atrig) at least for HP and Linux (maybe even Solaris?)
  - release postponed ==> aim for end October?  
We need some commitment for the testing!

# Outstanding issues

- Packages to be added: xKalman++? GEANT4? other?
- Generator packages:  
out of date; to be taken up by ATLAS Monte Carlo group  
(first meeting 13/09)
- Releases in both debug and optimised mode:  
not yet addressed
- Package author list: not yet fully updated
- Removal of "test area": to be scheduled immediately after  
production release if atlsim/.g problem is solved? Freeze  
(remove write access earlier?)

# Outstanding issues (cont'd)

- CERNLIB and shared libraries
- Web pages: update/reorganise?
- SRT development: some improvements are necessary:
  - in documentation – see review
  - in functionality – following ART requirements?
- SRT long-term maintenance and support
- The big question for Norman:  
Where do we discuss issues like the above?