

Repository and Releases

Status and Plans

ATLAS Software Workshop

18.05.99

M. Stavrianakou

Status of packages in repository

- **Production Software** (F77, Age, some C++)
mostly stable except for
 - Reconstruction: evolving (esp. iPatRec)
 - ATLFAST: recently (release 0.0.26) updated to latest version by E. Richter–Was
 - Applications (dice, dice–pythia and atrecon executables): being ported to more platforms
- **OO/C++ Software** evolving
(~13% increase in LOC since 17.03.99)
- **LOC Total:** F77 490K AGE 94K C++ 303K
(was 269K)

Supported Platforms

- **Supported**

- HP, DEC, IBM, LINUX and SUN

- hppa1.1–hp–hpux10.20 with HP aCC 1.18
- alpha–dec–osf4.0b with Digital C++ 6.0
- powerpc–ibm–aix4.1.5.0 with IBM x1C 3.1.x (moving to aix 4.3)
- i586–pc–linux–gnu with egcs 1.1.1
- sparc–sun–solaris2.5.1 with SUN CC 4.2

- **Not supported**

- SGI: partly supported by Boston (mainly for production), low priority
- WNT

RELEASES

- **Fortnightly (developers´) releases**
 - so far averaged 26 releases (HP, DEC, IBM, LINUX and recently SOLARIS)
in ~12 months
- **Nightly builds**
 - not really used by developers
 - FORTRAN software usually builds, failures in new software, occasional system–related failures
- **Production release**
 - planned for mid to end June after full testing

Outstanding issues (I)

- Generator packages out of date (to be taken up by next Physics Coordinator)
- Package author list to be updated
- Move to new release of CLHEP (LHC++) and CERNLIB to be scheduled
- SRT compilation log analyser (by L. Tuura) to be deployed
- Request (by D. Rousseau et al) for releases in both debug and optimised mode to be discussed – not yet addressed
- Librarian support
 - no deputy in case of absence (leave, sickness etc)

Outstanding issues (II)

- SRT development, maintenance and support
 - some improvements are necessary:
 - in documentation – see review
 - in functionality
 - modifications to cope with release size which now exceeds 2+1 Gbytes unless make mostly clean is done
 - allow for releases both in debugging and optimisation mode
 - allow non global releases and sharing of binaries across releases (controversial)
 - SPIDER SRT project stopped by IT (see S. Fisher's presentation on Friday 21.05)
 - currently (and temporarily) 10–15% of L. Tuura
 - need viable, long–term support scheme (or migration to new tool with guaranteed long–term support)