

Software development tools for the SuperB

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SuperB development tools

- status of the subversion repository in Padova
- package distribution



subversion repository

- installed in Padova and tested
 - https://sbrepo.pd.infn.it:8910/
- access through username/password managed by LDAP
 - the same accounts used for the SuperB wikis, mailing lists etc.
- at the moment one project hosted
 - Bruno: the Geant4 based full simulation
- available also a separate repository (test) for playing around
- the repository is set up to sent e-mails to the project coordinator
- we are ready to host the fast simulation and other projects



subversion repository

- improvements:
 - send e-mail to commit author
 - create mailing lists where the commit notifications are automatically sent so anybody can follow the code evolution
 - one mailing list per project/package?
 - add repository browsing via web
 - others...
- TODO
 - learn subversion and organize real code release repository/repositories
 - authorization by project/group?
 - documentation



package repository

- set up a yum repository for rpm packages:
 - http://sbrpms.pd.infn.it:6611/
- currently packages only for SL46 and SL51 built on 32 bit systems
 - in the future we may add other architectures
 - we may distribute in similar way packagings for other distributions (if needed)
 - Mac's
 - Solaris
 - need manpower with good knowledge of these systems
- built a pseudo package (superb-sim) keeping the dependencies needed for the Geant4 full simulation
 - install it and automatically all the other packages will be installed with the correct release



package repository

- current packages:
 - CLHEP 2.0.3.2
 - ◆ GDML 2.10
 - Geant4 9.1.p01
 - root 5.18.00
 - xerces-c 2.8.0
- the CERN packages are installed under the path /usr/local/cern/PACKAGE/VERSION
- TODO:
 - create mailing list where to notify new releases
 - use of apt-get together with yum
 - can handle non root installation



package repository

- how to use it:
 - download the yum configuration file http://lxsuperb-v1.pd.infn.it:5511/superb.repo.SL46 (or .SL51)
 - copy it to /etc/yum.repos.d/superb.repo
 - download the signature file http://lxsuperb-v1.pd.infn.it:5511/SUPERB-GPG-KEY
 - install the key:
 - ◆rpm --import SUPERB-GPG-KEY
 - clean the yum cache:
 - yum clean all
 - install the package superb-sim
 - yum install superb-sim
- instructions available at http://lxsuperb-v1.pd.infn.it:5511/