## **Install Area for GLAST**

A short overview

- 1 Directory layout and status
- 2 How to install public data files
- 3 Environment variables
- 4 Next steps

**Details at** 

http://www.slac.stanford.edu/~hansl/soft/TestInstall/

#### **1- Directory layout**

#### • Each InstallArea : contains the public files

```
<path>/InstallArea/${tag}/bin/ ... executables *.exe
    /${tag}/lib/ ... libraries *.so *.a
    /include/<package>/ headers *.h
    /jobOptions/<package>/ ... *.txt
    /pfiles/.. *.par
    /xmlData/ ... *.xml, *.dtd
    /data/... other public data
```

Colour code: working, for GR only, for ST only, for GR & ST \${tag} = rh9\_gcc32 or rh9\_gcc32opt or ... several builds may be made available

### 2 - How to install data files

- jobOptions

<package>\_root/options/\*.txt

apply\_pattern declare\_joboption files=aaa.txt
apply\_pattern declare\_joboption files="aaa.txt bbb.txt"
apply\_pattern declare\_joboption files="\*.txt«

When jobOptions include other public jobOptions files, they have
 to follow the C++ style
#include "<package>/xxx.txt"

• Other runtime data files

apply\_pattern declare\_data files="file1.xxx file2.yyy \*.zzz"

### **3 - Environment Variables**

- Location of InstallArea
   \$CMTINSTALLAREA
- Access to data files
   \$XMLPATH
   \$JOBOPTSEARCHPATH
   \$DATAPATH
- Gaudi understands a JOBOPTSEARCHPATH which is composed of several entries
- For data files: new Tool to find data and directories in data path of format path1:path2:etc (WIN32 path1;path2;etc)

Tool/PathResolver

### 4 - What next [1]

Modification of GlastPolicy requirements
 build-strategy with\_install\_area
 use exInstpolicy v\* examples
 Sufficient to get \$CMTINSTALLAREA/\*/bin, /\*/lib, /include
 for GlastRelease and ScienceTools
 see /nfs/slac/g/glast/users/glground/hansl/stv1r3
 /nfs/slac/g/glast/users/glground/hansl/grv4r1

#### • Installation of data for ScienceTools

xmls, pfiles, data patterns are prepared Migration should not be painful - Coordination by Jim Chiang

#### • Installation of data for GlastRelease

Well planned coordination and some cleanup needed for migration

Next CMT release v1r16 foreseen for end of February, but we may as well get experience with what is available now

# What next [2]

I have asked Richard and Toby that the InstallArea is taken over by a group, which has the mandate for Software Infrastructure and Tools – I will be available to help

Down the road

- How to use the InstallArea for distribution of executables and data
- Use a commercial Tool?
- Use Pacman ?

See http://physics.bu.edu/~youssef/pacman/index.html

Pacman 1/2 day Workshop at Brookhaven National Laboratories, March 17 2004