

CVS Centralized Archive: WHY NOT?

(by E. Bernardini & E. Resconi)

Goal: improvement of the coordination of the various contributions to the development and maintenance of the AMANDA software packages

To be discussed:

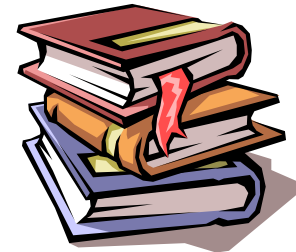
- 1- Why not a centralized archive ?
- 2- Possible policy lines
- 3- CVS archive contents and administration



-1- WHY NOT?

CVS (Concurrent Version System) is a tool to help to keep track of the different versions of a software package **constantly under development** (see for ex. ATLAS, CMS, etc., Xemacs, Root, etc.).

For ex. think to a library with books from different authors under writing .



Minimal condition for a correct use:

- the under development source codes should be managed by a single CVS archive; multiple CVS archive reduced synchronization, track of development history (included bugs !)
- the archive should be putted in **ONE place** and managed by **ONE person**

-2.1 - Policy Line I (Minimal Approach)

Minimal Approach (only if the number of developers is < ~10 per package):

- the archive will be open in reading AND writing mode
- the developers will directly work on the source

Pro:

- maximum synchronization
- fast debugging
- easy to be implemented

Cons:

- if the number of developers increases or the developers will not follow a minimum of discipline the situation can potentially become chaotic

-2.2 - Policy Line I I (Structured Approach)

If the number of dev. > ~10 per package or for other reasons:

- a) people will be recommended to work on a personal copy of the package
- b) only one or two people per package will have the privileges to modify the source codes in the archive; the developers, at the end of a modification, will submit to the responsible person the request for an upgrade

Pro:

- the development will be monitored until the people will agree in following the procedure

Cons:

- slower synchronization
- more difficult to be implemented

-3- Archive contents & administration

Contents:

- source codes organized in different packages (PTD, Photonics, AMASIM, Siegmund, DAQ,.....)
- documentation
- special libraries, script etc.

[Official release of packages will be available on the software web page]

Administration:

Repository administrator responsibilities:

- creation and organization of the archive
- ensuring that the archive is backed up
- solving problems that require the access to the archive host machine
- etc.



-4- Other ...

- DESY can guest the Master Repository (under AFS)
- a map of the archive can be realized
- a web interface can be realized
- mirrors can be realized
-