VDAS/DAQ meeting
15/03/2012

➢ Configuration management tools: CVS to be replaced by SVN ? git ? XXX ?

➢ Build tools: CMT to be replaced by Cmake ? XXX ?

➢ Software development models:
  ➢ library release - code freeze
  ➢ virgoDev-virgoApp management
  ➢ rules for online vs rules for DA software
  ➢ installation of DA software in CC + LSC clusters

➢ Platform migration to Scientific Linux 6 ?

Configuration Management Tool

- Current use of **CVS**, with the over-layer **SCVS**

- Other proposed tools: SVN and git

  - **git**

    - Quite different from CVS

    - More difficult to use ?

  - **SVN**

    - Same model and use as CVS, with some improvements:
      - Keep track of moved/renamed files/folders
      - Single revision number for all the package, not one number per file
      - ...
    - It seems quite simple to switch from CVS to SVN for Virgo developers
    - For management: migrate the CVS repository to SVN.

  --> Can switch to SVN. ?   I would switch completely, not keeping an "hybrid system"

- What about **SCVS** layer ?

Build Tools: CMT, CMake/CPack/CTest/CDash

- Use of **CMT** in Virgo (version v1r14p20031120)   http://www.cmtsite.org/

  - Nice tool for package configuration, dependency

  - Linked with CVS and SVN (latest versions), and broadcast option for code installation:

    – cmt checkout -R -r v6r7p2 Fd

    – cmt broadcast cmt config

    – cmt broadcast make

- Other proposed tools (F. Carbognani):

  - Cmake/CPack/CTest/CDash proposed to be used by the Software manager

  - Could ease software distribution packaging ? Effect for developers ?

--> I am quite happy with CMT and would keep it (at least for the general Virgo developers).
*But the version can be **updated** (latest is v1r24)*
Not all requirements files compatible with the new version ?
Not an easy migration ?

Management of external packages

- External packages: fftw, gstreamer, xforms, X11, ROOT, ...

  - Generally installed on the machines and linked in a CMT requirement file

    --> requirement file to be adapted to each environment

- Possible improvement proposed by E. Pacaud:

  - provide the package file in CMT (the full compressed file), and build the full package from CMT

Platform migration to SL6

- Current use of SL4 and SL5 in Virgo+

- SL6

  - Released in 2011, support of new hardware until ~2017

  - Under tests at EGO

    https://access.redhat.com/support/policy/updates/errata/

- SL7

  - will be released around the time of AdV start (2014-2015): not the better time to migrate

  --> Migrate to SL6 'now'