Installation for the Samba/Tango code compilation

A. Preliminaries

- 1. Have **Xcode** installed **BUT NOT RUNNING**.
- 2. Open a shell session with Terminal.
- 3. Choose a top directory, if possible your home directory. This directory will be called **TopDir** from now.
- 4. Copy CompileSamba.tar inside, cd to <TopDir> if necessary, and untar it
 - this creates 2 main directories in <TopDir>;
 - one is Prgm, dedicated exclusively to compilation, particularly to build new versions of Samba or Tango;
 - the other is **Acquis**, dedicated exclusively to *run data acquisition* (simulated or not), including the user's experiment setup, also to run data analysis.
- 5. cd to <TopDir>/Prgm/
- B. Quick installation
- 6. Run./full install (macOS < 15) or ./full install 64 (macOS ≥ 15)
- 7. Report directly to the paragraph E, Running Samba.
- C. Compiling projects separately
- 8. Run ./install xcode
 - this defines some Xcode-wide settings, of which some are rather important.
- 9. Run open std/librairies/compil/Xcode2.4/Librairies.xcodeproj/
 - this should start Xcode with the project Librairies
- 10. On the top toolbar of Xcode, select Librairies (macOS<15) or Lib64 (macOS≥15)
- 11. From the menu bar, click on Product > Build
 - this should compile all the libraries needed at some time by Samba, Tango and auxiliaries;
 - if the settings are set as requested in (8), there should be a very few warnings, excepted when compiling the files wnd.c and ellf.c (nothing serious).
- 12. From the terminal, again from <TopDir>/Prgm/, run:
 - open edw/compil/Xcode2.4/Samba/Samba.xcodeproj/
 - this should start Xcode with the project Samba
- **13**. On the top toolbar of Xcode, select Samba (macOS<15) or Gasol (macOS≥15)
- 14. From the menu bar, click on Product > Build
 - this should create the application Samba.app or Gasol.app
 - if the settings are set as requested in (8), there should be *no* warnings.
- 15. You may compile Tango as well, like told on (12), (13) and (14), but replacing all "Samba" by "Tango" (macOS<15) or Gigas (macOS≥15).
- D. Getting an experiment definition
- 16. From the terminal, cd to <TopDir>/Acquis
- 17. Move the contents of the Top_for_news directory to the current directory (<TopDir>/Acquis)
 - You can run open . then open Top_to_news to be able to move easier the files with the mouse.
- 18. Run ./install samba (macOS<15) or ./install 64 (macOS≥15).

E. Running Samba

- 19. You got 3 permanent icons in your Dock:
 - StartSamba: if you click on it, Samba or Gasol is started, using the parameters listed in SambaArgs, whose location is given in the first line of \$ (HOME) / .samba top;
 - VersionSamba: allows you to change the version in service, significantly to go back to a previous version, when the last one is deficient;
 - ReportSambaCrash: if you click on it, it should send me the last Apple's System Crash Report of Samba.
- 20. You can then immediately click on the Dock icon **StartSamba** and begin to play with Samba/Gasol. You should have a sphere emulation running. From the popup menu "**Display**" in the menu bar, click on **Oscilloscope**, and don't forget to activate the **Pulser**..
- 21. Beyond this, it's a good idea to add permanently to the environment variable PATH, in your shell, the following directories:
 - <TopDir>/Acquis/executables
 - <TopDir>/Acquis/executables/utils
- 22. Also, to define (permanently again in your shell) the following aliases, for macOS<15:
 - alias samba \
 <TopDir>/Acquis/executables/Samba.app/Contents/MacOS/Samba
 - alias tango \
 <TopDir>/Acquis/executables/Samba.app/Contents/MacOS/Tango
- 23. Aliases *for macOS≥15*:
 - alias samba \
 <TopDir>/Acquis/executables/Gasol.app/Contents/MacOS/Gasol
 - alias tango \
 - <TopDir>/Acquis/executables/Giga.app/Contents/MacOS/Giga
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- 24. Once you are done with (21) and (22), start a new shell. You can just enter samba even from your home directory. It's the same as clicking on the Dock icon (20).

F. Running Tango or Gigas

25. Running Tango or Gigas is only from a shell. Indeed, you have to add, as a parameter of the command, the name of the event file generated by Samba/Gasol.