XML Version File Management

- Need to manage different versions of software stack
  - Current system based on build_scripts, requires XML version file
  - There are a lot of different versions now
    Still an "expert" level problem?
  - Add simple CLI - see `gluex_install`, branch `ui_update`
- Version XML files cached in common directory
  - Version aliases
  - Version files on halldweb
  - Local files

gluex_versions

- In gluex_install:
  - source gluex_cmds.sh
  - GLUEX_TOP should be defined
- Commands:

```
[sdobbs@charm gluex_install]$ gluex_versions -h
'-h' not a supported command!
 commands = show show-all build config build-jlab config-jlab show-local


[sdobbs@charm gluex_install]$ gluex_versions show-local
All versions locally available:

recon-2017_01-ver03_1_jlab
test
1.24
```

← Installed Versions

gluex_versions

```
[sdobbs@charm gluex_install]$ gluex_versions show-all
All versions available at JLab:
version_1.0.xml
version_1.1.xml
version_1.2.xml
version_1.3.xml
version_1.4.xml
version_1.5.xml
version_1.5_fall14.xml
version_1.6.xml
version_1.7.xml
version_1.8.xml
version_1.9.xml
version_1.10.xml
version_1.11.xml
version_1.12.xml
version_1.13.xml
version_1.14.xml
version_1.15.xml
version_1.15_jlab.xml
version_1.16.xml
version_1.17.xml
version_1.18.xml
version_1.19.xml
version_1.20.xml
version_1.21.xml
version_1.22.xml
```
etc.

There are a lot!

gluex_versions

- By default, show only selected versions

```
[sdobbs@charm gluex_install]$ gluex_versions show
gluex-v3.1-20180808
latest*
recon-2016_02-ver06*  ⟵——————— * means available locally
recon-2017_01-ver03*
workfest2018
```

- Aliases specified in centralized config file

```
latest version.xml
workfest2018 version_workfest2018_baseline.xml
gluex-v3.1-20180808 version_3.1_jlab.xml
recon-2017_01-ver03 version_recon-2017_01-ver03_1_jlab.xml
recon-2016_02-ver06 version_recon-2017_01-ver03_1_jlab.xml
```

Alias   **File name**

Other commands

- Load environment:
  - gluex_version config <version>
  - gluex_version config-jlab <version>
- Compile software set:
  - gluex_version build <version>
  - gluex_version build-jlab <version>
- Version hierarchy:
  - alias -> remote file -> local file
- Command aliases: gluex_config, gluex_build