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### Index

1 Project Roadmap

**ForceBalance** is a work in progress and is continually being improved and expanded! Here are some current and future project development ideas.

Some notes on updating the version:
The formalism for the version number goes something like this:
\[ v1.2.1[^{ab}][1-9] \]
where:

- 1.2.1 stands for major release (may break compatibility), medium-sized release (important features), minor release (improvements)
- a or b, if present, stands for alpha or beta release, with numbers standing for the n-th alpha or beta release

To manually specify a release, create a tag and push it to the remote repository:
```
git tag -a v1.2.1 -m "version 1.2.1" git push --tags
```
The version number should then be automatically generated by "git describe" which is run by setup.py at installation. Finally, remember to update the version number in the documentation generation scripts!

1.1 Most Recently Implemented (version 1.3.0):
- Engine class is a unified interface to MD simulation codes.
- Added Gromacs, OpenMM, and TINKER engines.
- Thermo target; simple support for general thermodynamic properties. (Erik)
- Lipid target; lipid bilayer properties. (Keri)
- **ForceBalance** –continue option continues an aborted run and loads as much data as possible from the latest iteration.
- Parameter filtering allows targets to skip over parameters that are known to be irrelevant, for efficiency of finite difference derivatives.
- (Optimizer / Liquid / Lipid) Increase simulation length as we get closer to convergence.
- (Gromacs) Now supports binding energies, interaction energies, multipole moments and vibrational frequencies.
- (OpenMM) Now supports binding energies, interaction energies, and multipole moments.
- (nifty.py) exec() reads from stdout and stderr asynchronously, allowing us to split the streams and tail -f the output at the same time.

1.2 Current Development Goals, for version 1.3.1:
- More comprehensive tutorial to walk users through the initial process of setting up targets and preparing for a successful **ForceBalance** run

1.3 Longterm Development Ideas
- Visualization of running calculations

2 Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

```
filecnv 5
ForceBalance 5
```
3 File Index

3.1 File List

Here is a list of all files with brief descriptions:

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abinitio_internal.py 9
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binding.py 9
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5.19 leastsq.py File Reference
Namespaces
  • src.leastsq

5.20 LICENSE.txt File Reference
Functions
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• or

• b Accompany it with a written offer

• b Accompany it with a written valid for at least three years

• b Accompany it with a written valid for at least three to give any third party

• b Accompany it with a written valid for at least three to give any third for a charge no more than your cost of physically performing source distribution

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