Docs for qt_scripts

1 Table-like

For full description of usage run the scripts with --help or -h

1.1 prepare ONIOM inputs

	In	Out	Motivation
amboniom.py	.prmtop (or .top) plus .inpcrd (or .crd / .rst)	.com	Exact copy of forcefield parameters from Amber topology to gaussian.com file. Specially useful with parameterized ligands and newer forcefields (gaussian uses ff94 by default).
gfreezer.py	.com	.com	Freeze protein further than a distance from high layer. Can be used to generate an external layer of water molecules.

1.2 monitor and analysis

	In	Out	Motivation
g2pdb.py	.log / .com	.pdb	Visualize scans and optimizations in VMD or
			Pymol by producing a .pdb file.
hiig.py	.log		Get convergence situation of a job and a plot
			of energy along scan or optimization.
gsurf.py	any number of	3D plot	Plot energy against 2 reaction coordinates in a
	.log files		3D plot.

1.3 restart jobs

	In	Out	Motivation
gx.py	.log	.com	Restart calculation from a specific scan point (the last by default).
gscan.py	.com	.com	Automatically set up scans by specifing final distance of reaction coordinate.
paimei.py			Automatically restarts error jobs. Works well with scans and ground state optimizations. Read the manual for instructions.

2 Standardization of options

This is yet to be implemented, if we all agree.

- -o optimization steps
- -s scan steps
- --out filename for output of script
- -e energy type (oniom/scf/low)