NAME

PARMLOOKUP - Looks up missing force field parameters for an ONIOM calculation.

SYNOPSIS

```
parmlookup [-d? (?:0^3)] [-g Gaussian\_ONIOM\_log\_file] [-h] [-q] [-o parmfilename]
```

DESCRIPTION

This program looks up missing AMBER force field parameters for ONIOM calculations based on a given Gaussian output and AMBER parameters files. It goes through the AMBER force field parameter file for amino acids first, then the GAFF (General AMBER Force Field).

OPTIONS

Command line option specifications are processed from left to right and may be specified more than once. If conflicting options are specified, later specifications override earlier ones.

-d? (?:0~3) Turn on debug printing. The printing level can be controlled by a given number. The larger the number, the more information will be printed when the program is running.

-g Gaussian ONIOM log file

Gaussian log file. The missing parameter messages should be located at the end of this file. Other information obtained from this file includes all the atoms and their types.

-h

—help Print full PARMLOOKUP documentation via perldoc. Cannot be used with other options.

-q Run in quiet mode and do not print progress messages.

-o parmfilename Output file containing missing parameters. Default is NewParm.txt.

EXAMPLES

parmlookup

Called with no parameters at all, PARMLOOKUP will display usage information. If **-h** or **--help** is passed, then the full PARMLOOKUP documentation is displayed via perildoc.

parmlookup –g foo.log –o fooparm.txt

PARMLOOKUP reads foo.log, then looks up missing parameters in the AMBER Force Field files and saves hem to fooparm.txt.

NOTES

If PARMLOOKUP cannot find a parameter in the AMBER force field files, a zero value is displayed. A user can estimate values for parameters that cannot be found by looking up corresponding parameters for atoms with similar atom types.

VERSION

1.0

AUTHOR

Peng Tao, <tao.21@osu.edu>

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