

# Profiling

# Finding Out Where it's Slow

- You need to use a profiler in order to find the slow parts of your code.
- Fortran: compile *and link* with `-g -p` (or `-pg` or similar, depending on compiler)
- Run code as usual. It will produce a file `gmon.out`
- Run `gprof`  
`gprof yourexec > prof.out`

# Python Profiling

- What is available depends on your version of Python
- The cProfile module is usually available, or at least the profile module
- <http://docs.python.org/library/profile.html>  
`python -m cProfile myscript.py`
- Use the pstats module to review the results.
- Spyder users: the profiler GUI should be built in
  - Run/Profile