Benchmarking: How

- Automated
  - Standard form(s) for test problems
  - Tools for data generation (running solvers)
  - Compute/display results (PAVER)
- Open (use shared tools, problems, source)
- Reproducible results are a must
  - Think cold fusion

Same result, time after time

Benchmarking: Who, What, When, Why

- Who:
  - Solver developers
  - Owners/users of solvers – they know what they want
- What
  - Shared sets of models, from difficult to easy
  - Models of interest to users
- When
  - When the solvers are mature enough
  - Often after that – new versions demand it
- Why
  - Performance
  - Quality