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