Software plan

• To maintain over long term, need to make sure software is:
  – Maintainable
  – Portable
  – Controllable
  – Flexible

• First step: inventory (now under way)
  – How many modules
  – How many lines of code
  – What languages
Next steps

• Review inventory
• Identify the most challenging modules:
  – Not understandable
  – Poorly designed
  – Not portable
  – Insufficient functionality
  – Mission critical
• Prioritize
• Do we set standards (i.e. languages)?
• Estimate effort to redesign and/or re-implement
• Lay out schedule
Likely candidates for rewrite

• DNSPIPE (Spherical harmonic transform)
  – SPP version cannot handle high degrees
  – Already being rewritten in C

• PEAKFIND
  – Still needs improvements

• VMBICAL
  – Cumbersome, not maintainable in current form