Remote Program Monitoring

- Accurate monitoring of power/energy
  - Simulation (limited accuracy, CPU only)
  - Battery monitors (course grained, inaccurate)
  - High-end, accurate, high-resolution, external tools
    - Multimeters, oscilliscopes, programmable power supplies
    - However, non-sharable, inflexible, and expensive
    - Power/energy only, not coupled with CPU metrics

- RPM
  - Remote access to high-end toolset and devices
  - Flexible job management
  - Coupled with CPU metrics and phase extraction
Remote Program Monitoring (RPM)

PowerTool

RPM Web Interface

Internet

RPM User

Programmable Power Supply

High-precision Oscilloscope

Phase Marker

Switch

VPerfmon
Using RPM for Performance Analysis