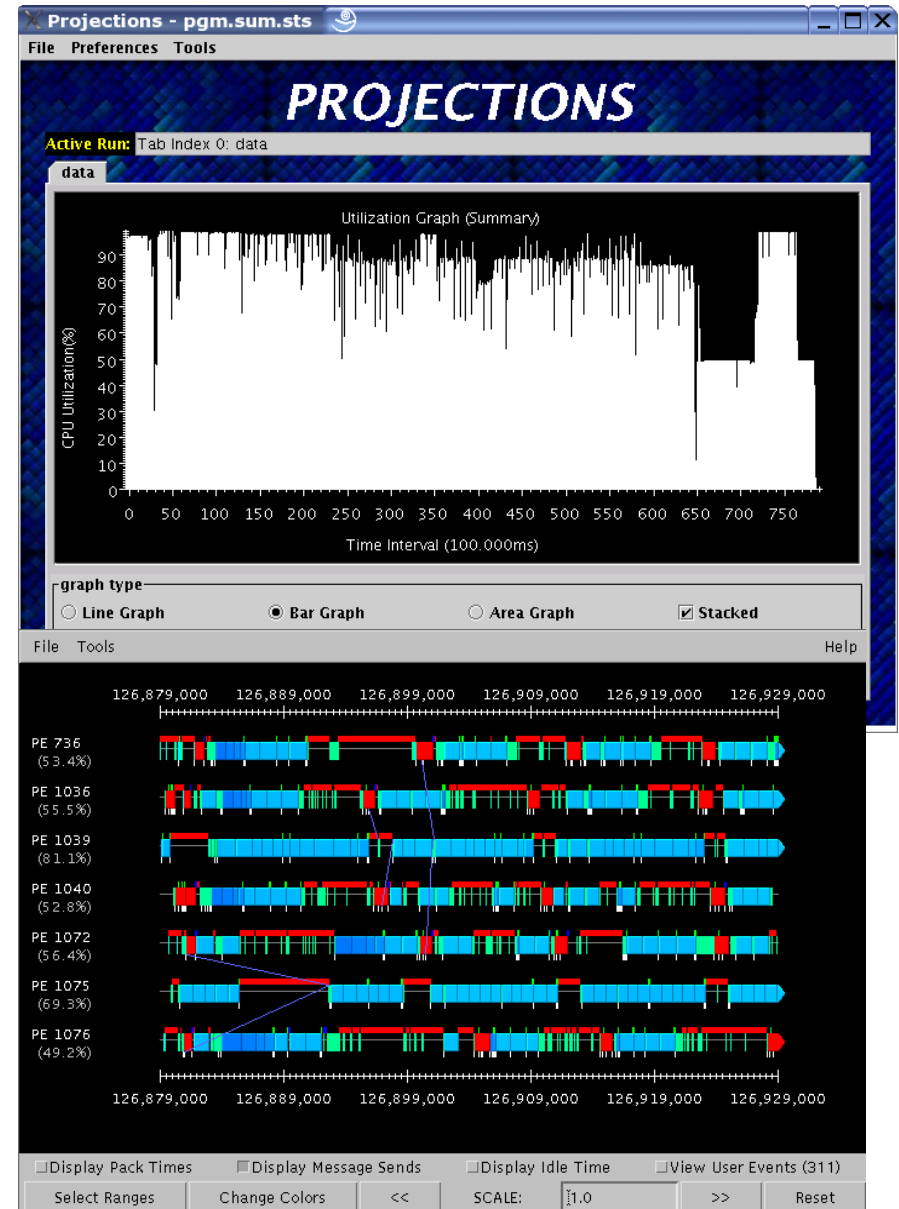
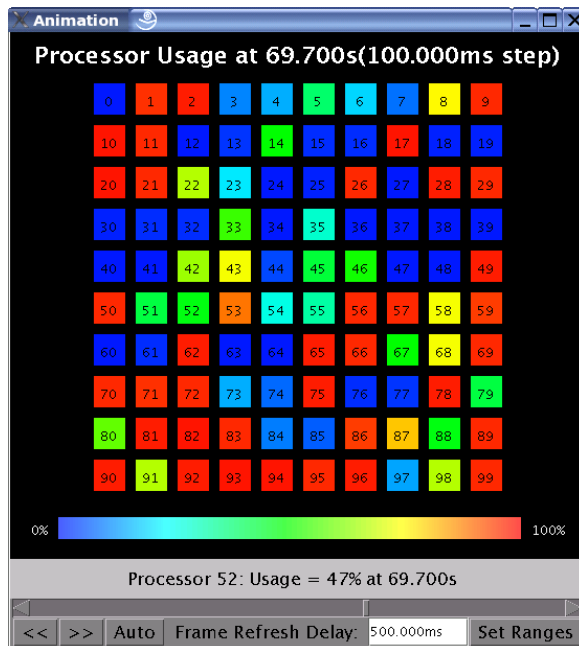


# Projections: Performance Analysis Tool

- Automatic instrumentation via runtime
- Graphical visualizations
- More insightful feedback
  - because runtime understands application events better



# Exploit sophisticated Performance analysis tools

- An example:
  - Trying to identify the next performance obstacle for NAMD
    - Running on 8192 processors, with 92,000 atom simulation
    - Test scenario: without PME
    - Time is 3 ms per step, but lower bound is 1.6ms or so..

