

## Working Session 1: Architectural Considerations

- 1) Consider system features needed for efficient, robust, scalable, and portable, high-performance solvers for science applications.
  - a) What is the most important architectural feature for
    - i) Scalable solvers?
    - ii) Portable solvers?
    - iii) Fault tolerant, resilient solvers?
    - iv) Robust and efficient solvers?
  - b) What additional architectural features are desired, and what are absolutely required?
  
- 2) With respect to high-performance solvers,
  - a) What are the most important architectural features that need to be settled on first, i.e. code developers need to know as early as possible?
  
  - b) What architectural features salient to solvers design, development, and deployment can be decided later by architecture designers? If not “co-designed”, when would code developers need to know about these features (0-3yr, 3-5yr, 5-8yr)?