The Remote Exploration and Experimentation (REE) Project

Transition State-Of-The-Art Supercomputing to Space

- From Commercial Availability to Space in 18 months
- 100X Performance over Current Systems
- Applications Development on Commercial Systems

Enable New Missions and New Science

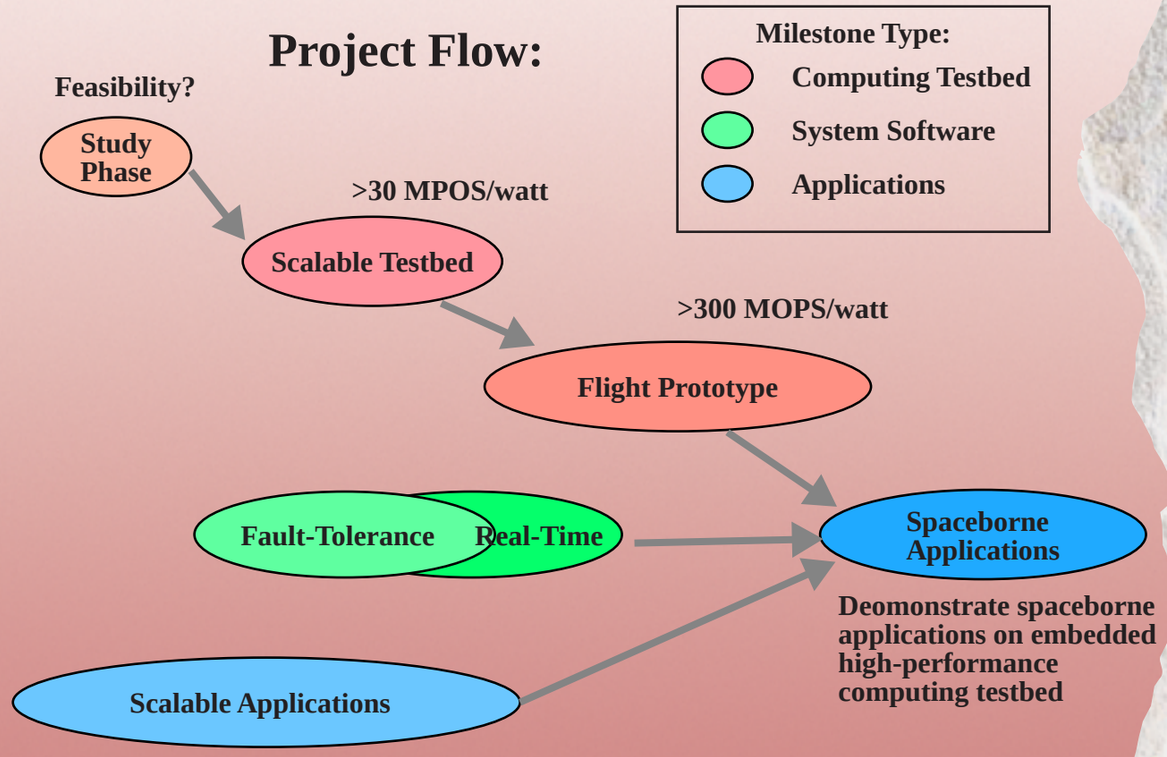
- Perform Science Processing Onboard Spacecraft
- Enable Full Utilization of Space-Based Instruments
- Mitigate Spacecraft Communications Bottleneck

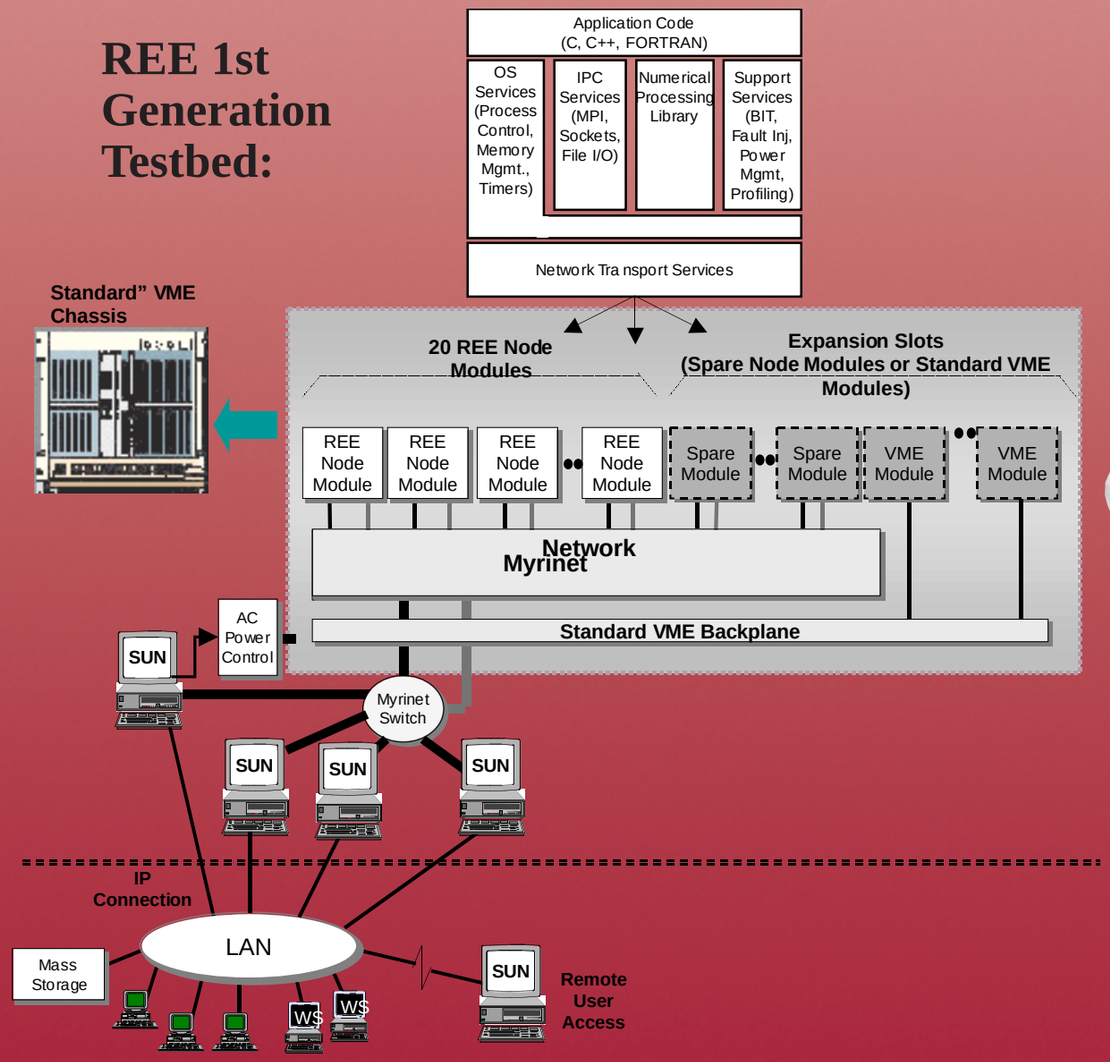
Fault Handling Through Software-Implemented Fault Tolerance (SIFT)

- System Level Fault Tolerance Support
- Application Level Fault Detection and Tolerance

Flexible and Adaptable

- Extensible to 50 Nodes
- Parallel and Distributed Processing
- Multiple Levels of Fault Tolerance and Performance on a Per-Process Basis





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