

## ASSAP: Advanced System Safety Assessment Program

- Dynamic Fault Tree analysis: a new approach to determining the probability of failure for complex systems
- Galileo/ASSAP: a software tool for DFT analysis developed at University of Virginia under the sponsorship of LaRC
- Galileo/ ASSAP analyzes the probability of failure for complex systems (i.e. the "P" in PRA)

## ASSAP Development

Being developed under NAS1-99098 (UVA)

- 32 month effort (March 1999-November 2001)
- \$675,000 provided by NASA Code Q
- Builds on 10 years worth of academic research funded by NSF, NASA and industry

- Integrated efforts in software engineering and reliability engineering
- Usable interoperable software environment using Commercial-Off-The-Shelf (COTS) components such as MS Word and Visio







