

## Software Reliability

### What is it?

Software Reliability is the probability that software will operate failure-free for a specified period of time in a specified environment. It is an important contributing factor impacting system reliability (which includes hardware and human reliability). Various approaches can be used to improve the reliability of software with an appropriate balance between development time and budget. High software reliability is extremely critical in cyber security applications.



### What's the payoff?

Robust software reliability design, development, test and support approaches help to ensure optimized system performance and total life cycle cost.

### How can we help?

- › Develop realistic software reliability requirements and software development specifications that include robust software reliability approaches
- › Perform reliability analyses and make recommendations to implement a cost-optimized software reliability strategy for your software, products and/or systems
- › Collect/analyze your software test data to determine the “best” software reliability model to use
- › Collect/analyze your software test and field data to determine reliability trends, root failure causes and potential corrective actions for your software
- › Evaluate your software for vulnerability to cyber security attacks and make recommendations for improved protection