

Software Reliability

CIS 376

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Functional and Non-functional Requirements

- System functional requirements may specify error checking, recovery features, and system failure protection
- System reliability and availability are specified as part of the non-functional requirements for the system.

System Reliability Specification

- Hardware reliability
 - probability a hardware component fails
- Software reliability
 - probability a software component will produce an incorrect output
 - software does not wear out
 - software can continue to operate after a bad result
- Operator reliability
 - probability system user makes an error