

Developing Dependable Systems

CIS 376

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Software Dependability

- Customers expect all software to be dependable.
- They may accept some system failures in non-critical applications
- Applications having high dependability requirements require special programming techniques

Achieving Dependability

- Fault avoidance
 - software developed to minimize impact of human error
 - development process is organized so that faults in the software are detected and repaired before customer delivery
- Fault tolerance
 - software designed so that faults in delivered software do not cause system failure