

# **Chapter 7: Computer Reliability**

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# Chapter Overview

- Introduction
- Data-entry or data-retrieval errors
- Software and billing errors
- Notable software system failures
- Therac-25
- Computer simulations
- Software engineering
- Software warranties

# Introduction

- Computer systems are sometimes unreliable
  - Erroneous information in databases
  - Misinterpretation of database information
  - Malfunction of embedded systems
- Effects of computer errors
  - Inconvenience
  - Bad business decisions
  - Fatalities