

An Introduction to Disk Drive Modeling

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Introduction

- Disk Drive performance improvements at 7-10%
 - Compared to microprocessors at 40-60% or disk storage capacities at 60-80% (annually)
- Simulation models to compare alternative approaches
- High quality disk drive model
 - Error factor 14 times smaller

Outline

- Introduction
- Characteristics of Modern Disk Drives
 - Recording Components
 - Positioning Components
 - Disk Controller
- Modeling Disk Drives