NANDA

Clereco
Cross-Layer Early Reliability Evaluation for the Computing cOntinuum

A tool for the reliability analysis of NAND Flash based SSDs   March 2016

Product Overview

NAND Analyzer is a product for design analysis of NAND Flash based Solid State Drives (SSDs). In includes models to assess:

- Flash memory error rate prediction based on the workload
- Wear-out analysis
- ECC scheme analysis.

Extensions & Tools

- Workload based characterization
- Different ISPP programming algorithms
- Different ECC configurations
- **Support for YAFFS2 file system**

Target Components

- SLC NAND Flash Memories
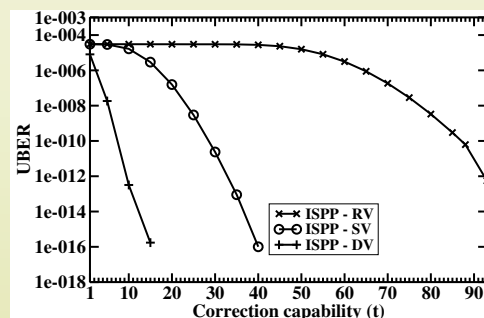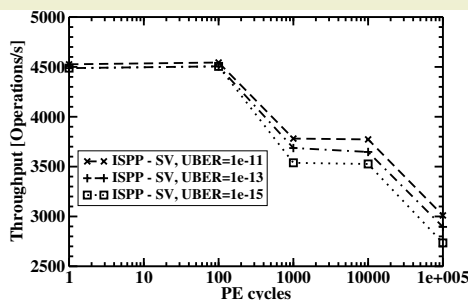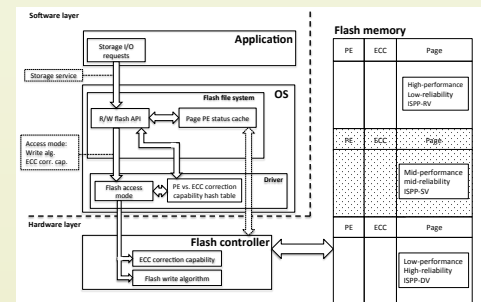- MLC NAND Flash Memories

Supported Fault Models

- ✓ **Intermittent**
- ✓ **Permanent**

Measurements

- Bit Error Rates
- Timing
- Power consumption
- Full statistics report

*"Evaluate **error-rate** and **lifetime** of your SSD storage system "*

- Testgroup (Polito)

How To Use NAND Analyzer

- Configure your SSD characteristics
- Explore different design dimensions

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