



OBJECTIVE ANALYSIS

Semiconductor Market Research

OBJECTIVE ANALYSIS REPORT

PUTTING SSDs TO THE TEST

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Abstract:

SSDs are becoming mainstream, but how do you choose and use the SSD you want in your system? Metrics, methodologies and tests are not yet standardized for this new medium. Now Objective Analysis, in conjunction with Calypso Systems and Coughlin Associates, provides detailed test data and analysis comparing 17 leading client and enterprise SSDs, clearing up the confusion that currently exists in this market.

To help cut through the confusion surrounding SSD performance, Calypso Systems exhaustively tested 17 leading SLC and MLC drives. With Objective Analysis and Coughlin Associates, Calypso is releasing new and original data to the public, making it available to parties interested in helping SSD users clarify SSD performance behaviors and characteristics.

This comprehensive report examines the capabilities of leading client and enterprise solid state drives. Actual test data on competitive products from these market segments will be used to compare performance between SSDs and comparable hard disk drives for representative user workloads and usage patterns.

The report presents SSD data from “fresh-out-of-box” (FOB) and “steady state” (SS) conditions. Performance measurements for a variety of access patterns (read/write ratios, block sizes, Random or Sequential) and under different data patterns (Random and Non Random). All tests are SNIA SSSI performance test specification compliant.

This report answers several pressing questions:

- Are there SSDs that perform consistently over time?
- How does my workload impact an SSD's performance?
- Why is it important to understand that SSD performance shifts when workloads change?
- What precautions must be taken when using SSDs in systems with deterministic timing requirements?
- When is a SSD better than an HDD for an application?
- How does my competitor's drive do in this workload environment?
- What issues should I think of when deploying SSDs in systems?

Purchase this report to ensure you are making the most informed solid state drive decisions.