



A COMPELLING REPORT BY COUGHLIN ASSOCIATES & OBJECTIVE ANALYSIS

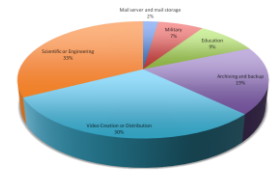
HOW MANY IOPS DO YOU REALLY NEED?

REPORT COMPILES IT MANAGER SURVEY RESULTS

Published August 2016

Abstract:

IT professionals find it difficult to determine which SSD or flash array to buy or even whether they can get the speed they need from standard HDDs. There is an extraordinarily wide range of IOPS (from hundreds to millions), latencies, and capacities, and this can be confusing. This report provides, through a survey of IT managers and other end users, a clear picture of the needs of various applications including IOPS, latency, and capacity. This 157-page report contains 136 figures and 8 tables of data that exhaustively analyze the responses to our survey and compare our 2016 survey to an earlier survey run in 2012.



Contents:

Executive Summary

Survey Objective

Why did we do this?

Methodology

Margin of Error

Anticipated Outcome

Storage Devices and their characteristics

SSDs, and Flash memory vs. DRAM

Caching/Tiering vs. Determinism

Raw Results

IOPS Requirements

Fast Capacity Requirements

Impact of Other System Bottlenecks

Minimum Useful Latency

Comparing the Results

IOPS vs. Capacity

Latency vs. Capacity

IOPS vs. Latency

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Data Warehousing and Search

Internet Server Caching

On Line Transaction Processing (OLTP)

Charge Card Processing

Reservations Systems

Algorithmic Trading

Currency Exchange and Arbitrage

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Weather/Life Sciences

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IOPS Requirements by Application

The Monetary Value of Higher IOPS Figures

How the Market Should Develop