



EFDs and Application Performance

Mike Chenery
President and Co-Founder
Pliant Technology Inc.

630 Alder Drive, Suite 202
Milpitas, CA 95035
408-321-0320
mchenery@plianttechnology.com



Overview

- About Pliant Technology
- EFDs and Application Performance
- Wall Street Applications
- EFD Performance Benefits
- Independent Benchmarking
- Q&A

About Pliant Technology

- Lightning[®] Enterprise Flash Drives (EFDs)
- Based on new/advanced controller design and software architecture
- Designed to integrate seamlessly into existing enterprise information systems
- Ideal for data I/O intensive enterprise applications, improving performance, reliability, energy efficiency, TCO



EFDs and Application Performance

- Enormous market demand for dramatically accelerated I/O
- Priority markets: financial services, HPC, global ERP, complex databases/OLTP, on-demand video
- Justification of cost differential of EFDs vs. HDDs



Wall Street Application

- Securities trading focuses the performance discussion for bottom line value
- “If a broker’s electronic trading platform is 5-milliseconds behind the competition, it could lose at least 1% of its flow – that’s \$4 million in revenues per millisecond. Up to 10 milliseconds of latency could result in a 10% drop in revenues. A 1-millisecond advantage in trading applications can be worth \$100 million a year to a brokerage firm.”



– *The TABB Group*

EFD Performance Benefits

- Peak period performance and flexibility
- A single EFD can replace 100 HDDs
- End-to-end data protection
- Simultaneous Read/Write transactions
- Dual port for increased performance and data path redundancy
- No write cache buffer
- Advanced data management

Independent Benchmarking

- OakGate benchmark testing of 16 Pliant Lightning* EFDs achieved an unprecedented 1.1 million IOPS
 - Real-world data center configuration
 - Read/Write ratio of 80%/20% in 4KB blocks
- Lightning EFDs allow data center IT infrastructure and system providers to do more for less
 - Achieve significantly higher system performance
 - With less power, lower cost and a smaller footprint

Any questions?



Thank you