## Adaptive Strategy for Secure Parallel Disk Systems

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## Introduction

- Parallel disk systems have been widely used in building networked and data intensive applications.
- Parallel disk systems alleviate the problem of disk I/O bottleneck.
- A number of parallel disk systems have been developed.

## Introduction (cont)

- The systems lack a means to optimize quality of security for dynamically changing networked environments.
- We propose an adaptive quality of security control scheme for secure parallel disk systems (ASPAD).
- ASPAD makes it possible for parallel disk systems to adapt to changing security requirements and workload conditions.



Fig1. Architecture of a security-aware networked parallel disk system.



## Conclusion

- ASPAD aims at adapting to changing security requirements in parallel disk systems.
- ASPAD carried out in three phases.
- 3. Dynamic data partitioning.
- 4. Response time estimation.
- 5. Adaptive security quality control.

