Computer Architecture and Systems Lab

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Areas of Research:

- Operating systems

- Filesystems

- Storage Systems

- Clustered and Distributed Storage

- Cloud Storage

- Solid-State Storage

- Mobile Computing

- Storage Caching

- Protocols and Verification

Current Research Work:

- Study of Key-Value Stores.

- Algorithms for caching and automatic migration between flash and disk.

- Algorithms for using flash memories in distributed clusters.

- Statistical Approaches to Modeling Computer Storage Systems.

- Fall Detection, Health Monitoring through Mobile Phones.

- Indic language support on mobile phones.

- Importance Sampling for rare event simulation.

- Parallelism on Clusters.

- Buffer Cache management in Non-Volatile memory

- Distributed Quota tracking problem