NOVA

- High shutdown and recovery overhead
  - Some part of data is stored in DRAM
  - Scan all the inode logs after crash

- Evaluation based on simulators
  - NVMMs have not been commercialized
  - Not support high capacity

- Focus on write-intensive workloads
  - Read operations depends on the performance of NVMMs
NOVA

- **Round-robin new inode assignment over multiple CPUs**
  - Deletion occurs in different times for each CPU
    - → Load-imbalance problem

- **Storage-inefficiency of one log per inode**
  - Tradeoff between runtime allocation overhead and space inefficiency
YourSQL

- Requires a special hardware
  - ISC-enabled SSD
- ISC sampler overhead
  - Tunable sampling size and sample area
- Can be used to accelerate write performance?
  - Generate data on the storage side
- Proofs of improvement?
  - Heuristic methods such as limiting score