

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