

## Ten Advanced Optimizations of cache Performance

- Small & Simple 1<sup>st</sup> lvl cache to Reduce Hit time & Power.

The following questions investigate the impact of small & simple

compare the access-time of 4 set associative cache with 64 byte blocks & a single bank. What are the relative access time of 22kB & 64kB cache in comparison to a 16kB cache

$$AMAT \rightarrow 1 + MT \times MP$$

---

Critical word 1<sup>st</sup> & early restart to reduce the miss penalty.

the use of critical word 1<sup>st</sup> &



→ The STAs be two

with & without scheduling