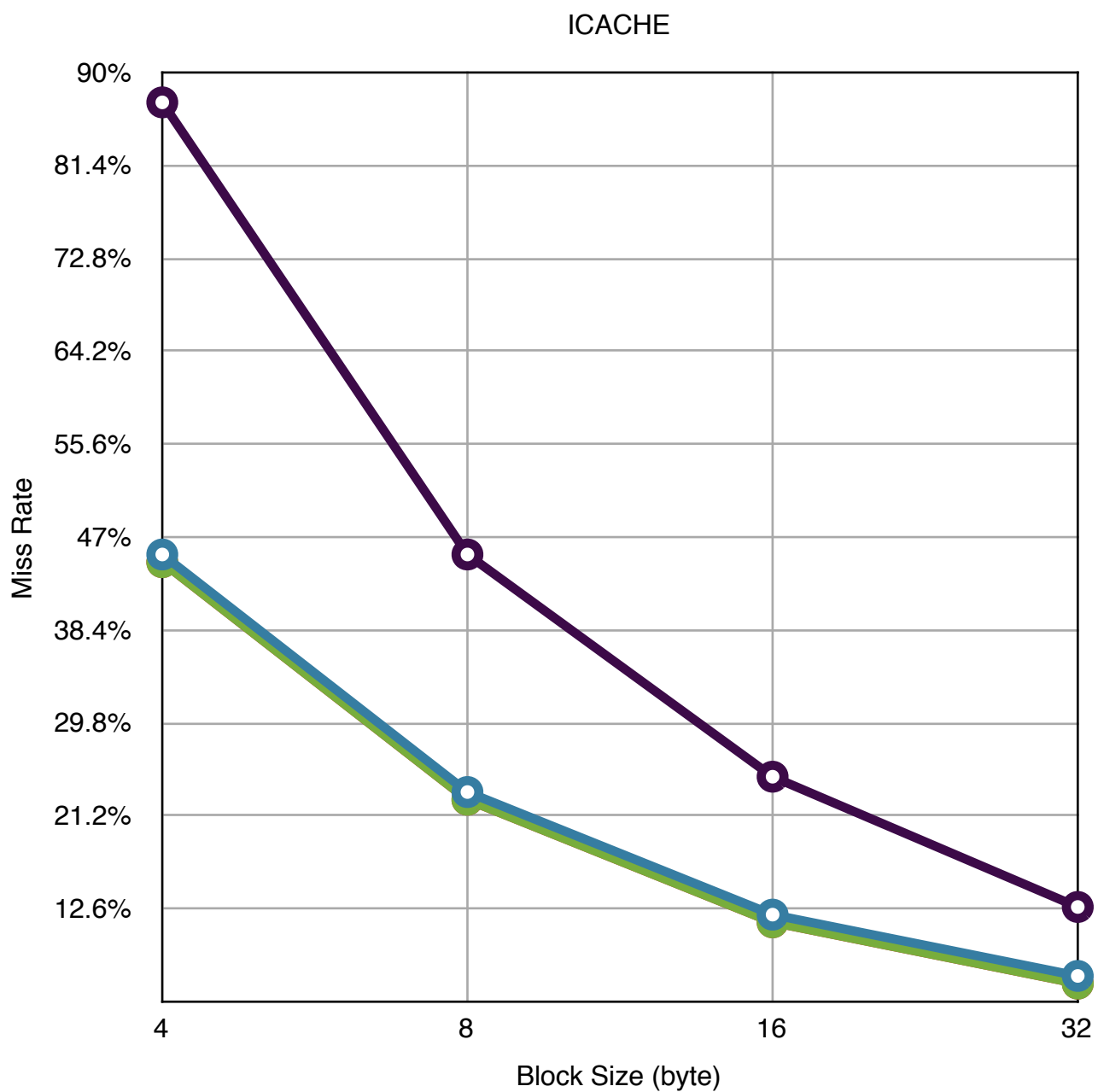# Computer Organization, Fall 2013

Lab 5: Cache Simulator

0016043 鄭順一
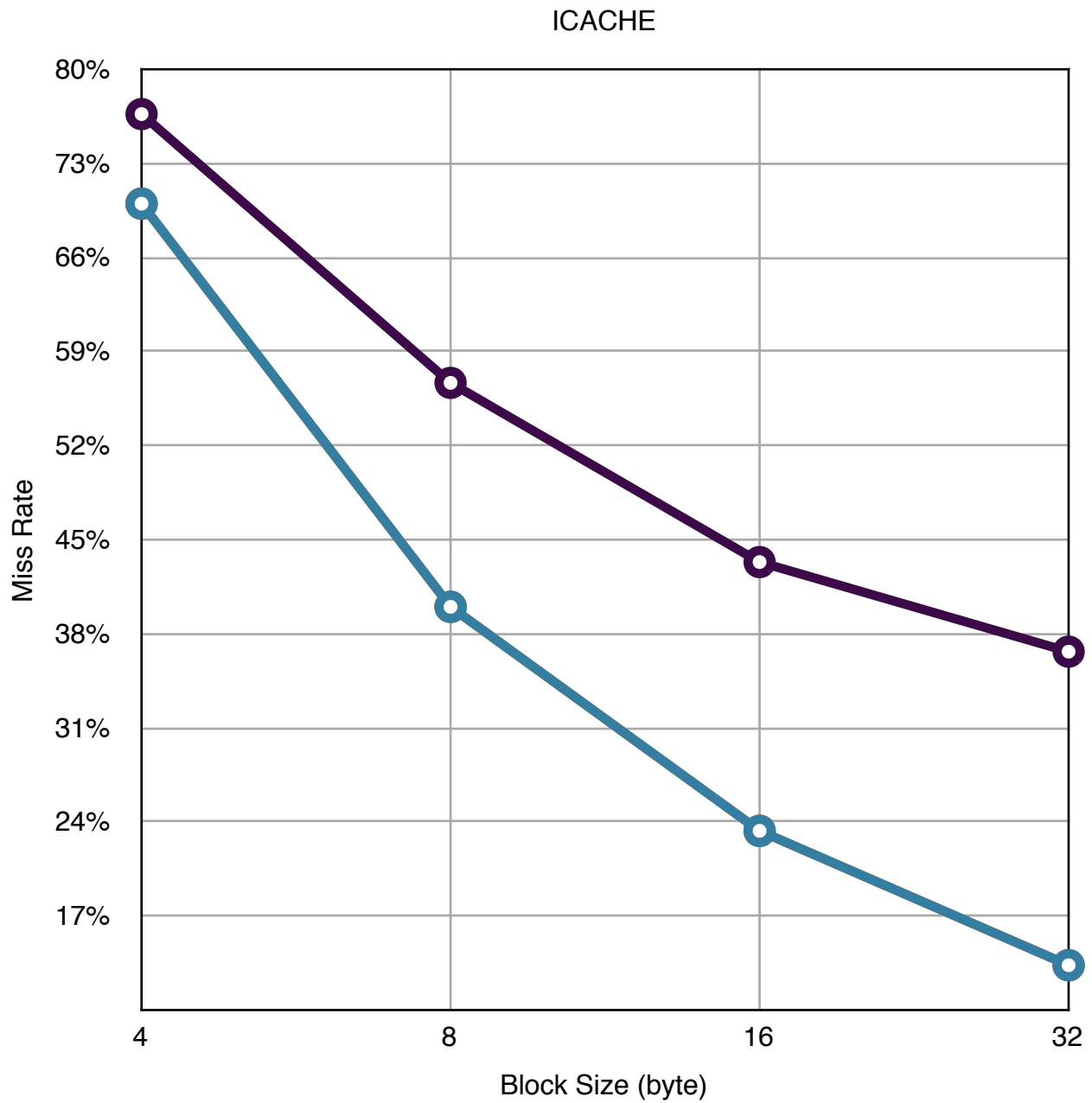0016075 陳雅琳

ICACHE

- cache size: 64 byte
- cache size: 128 byte
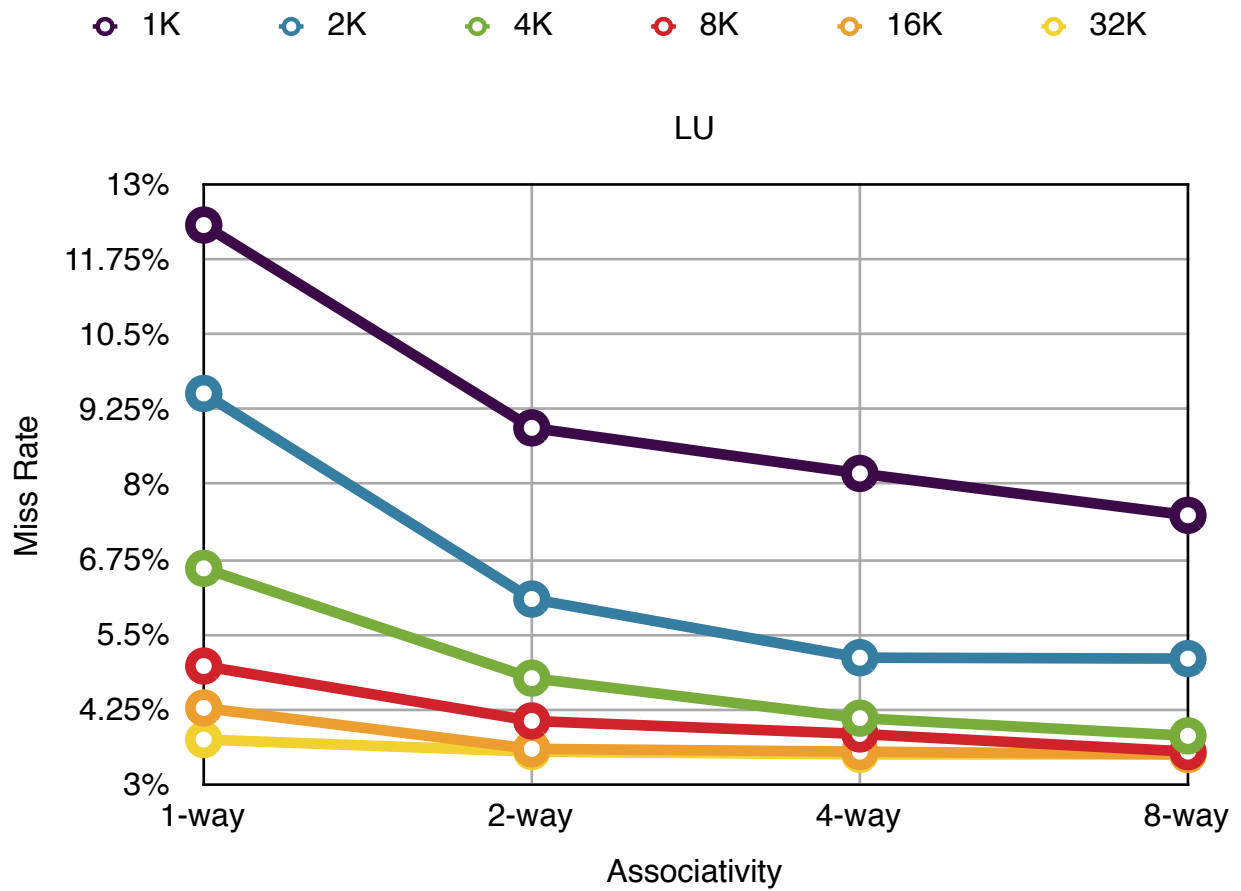- cache size: 256 byte
- cache size: 512 byte

ICACHE

DCACHE

ICACHE

LU

LU

Cache Size / Associativity	1-way	2-way	4-way	8-way
1K	12.3237	8.94435	8.18478	7.48721
2K	9.5179	6.09208	5.11549	5.09998
4K	6.60363	4.77445	4.10789	3.81336
8K	4.97597	4.06139	3.84437	3.54984
16K	4.27841	3.59634	3.54984	3.50333
32K	3.75136	3.54984	3.50333	3.50333

RADIX

LU
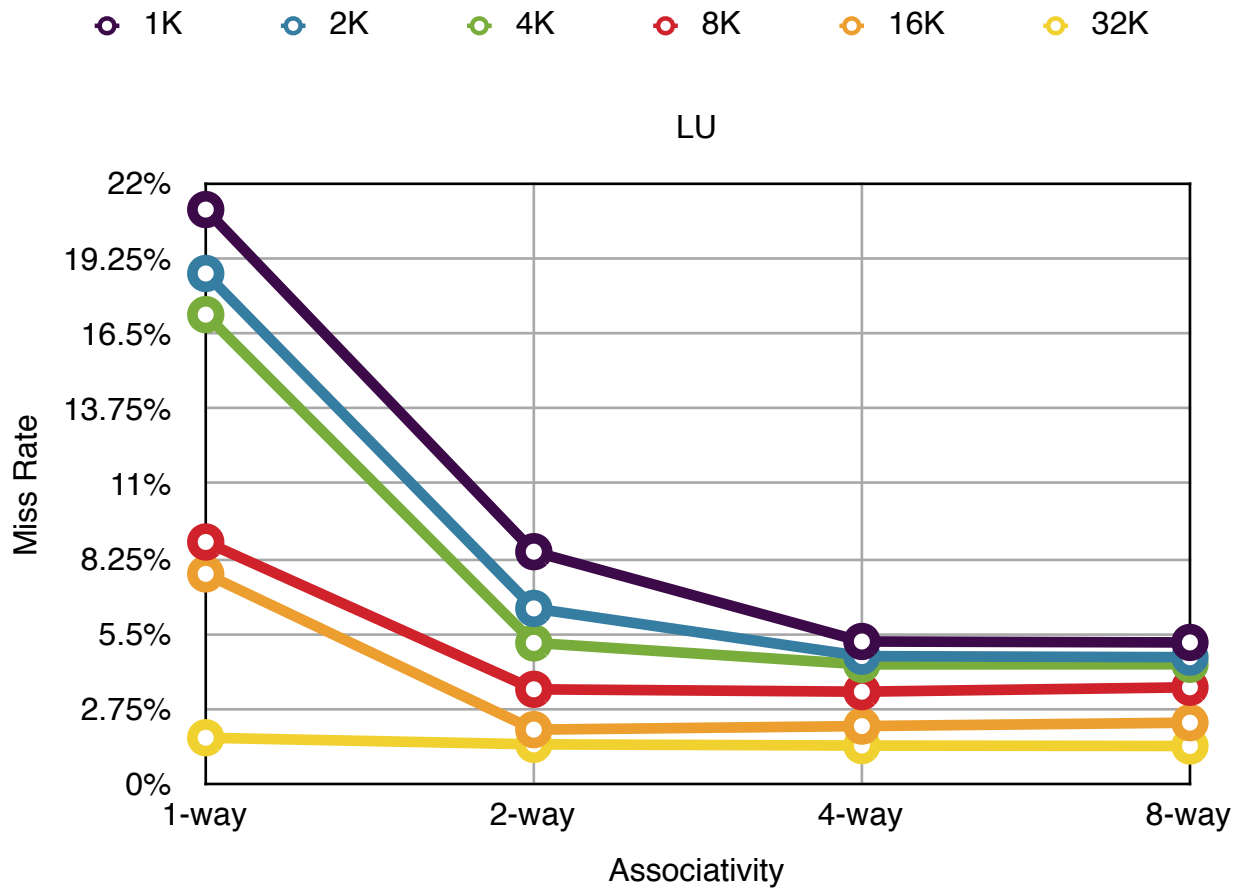
Cache Size / Associativity	1-way	2-way	4-way	8-way
1K	21.0556	8.51526	5.22321	5.18865
2K	18.7126	6.43577	4.68606	4.64718
4K	17.2048	5.17281	4.38364	4.38796
8K	8.87097	3.47062	3.38278	3.54407
16K	7.70161	1.99165	2.1227	2.24798
32K	1.69499	1.45305	1.40841	1.39257