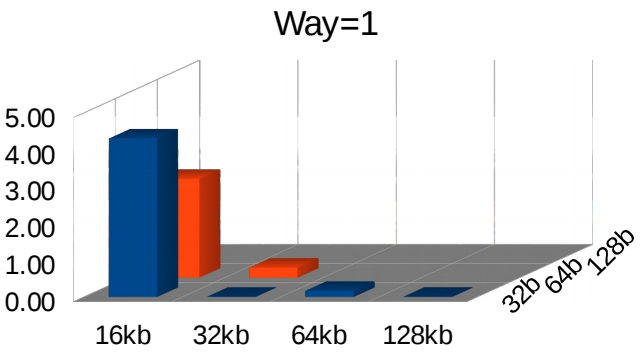
Manatsawin Hanmongkolchai
5610545757

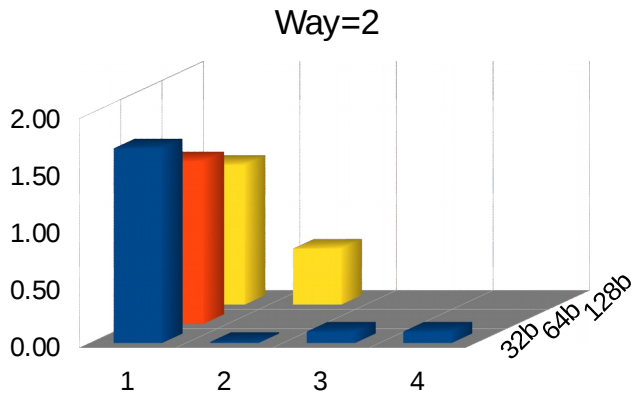
icache

Cache miss %, less is better

Way=1 Total size / Line size	16kb	32kb	64kb	128kb
32b	4.31	0.01	0.17	0.01
64b	2.69	0.28	0.00	0.00
128b	0.00	0.00	0.00	0.00



Way=2 Total size / Line size	16kb	32kb	64kb	128kb
32b	1.70	0.01	0.10	0.10
64b	1.42	0.00	0.00	0.00
128b	1.22	0.49	0.00	0.00



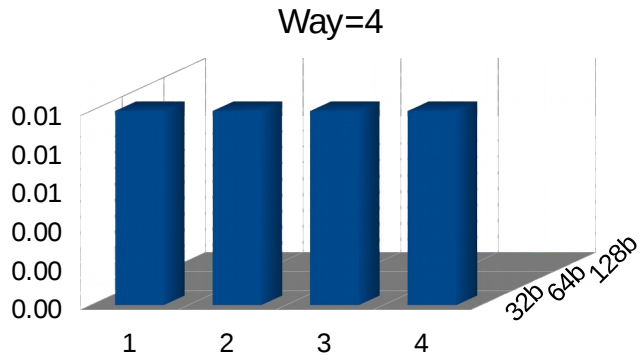
Way=4 Total size / Line size	16kb	32kb	64kb	128kb
32b	0.01	0.01	0.01	0.01
64b	0.00	0.00	0.00	0.00
128b	0.00	0.00	0.00	0.00

Way=8 Total size / Line size	16kb	32kb	64kb	128kb
32b	0.01	0.01	0.01	0.01
64b	0.00	0.00	0.00	0.00
128b	0.00	0.00	0.00	0.00

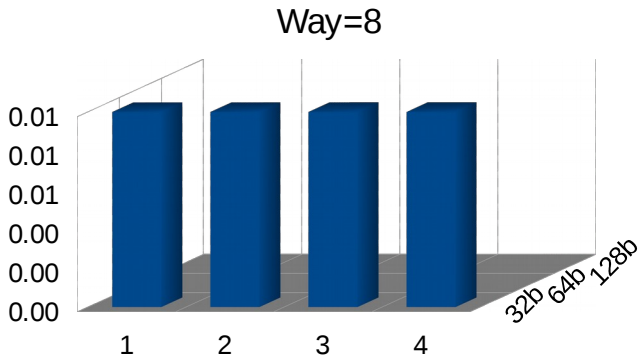
dcache

Load+store miss %, less is better

Way=1 Total size / Line size	16kb	32kb	64kb	128kb
32b	8.47	2.05	1.43	0.08
64b	12.98	2.42	0.68	0.05
128b	10.77	5.01	0.88	0.06



Way=2 Total size / Line size	16kb	32kb	64kb	128kb
32b	2.34	1.00	0.13	0.07
64b	2.64	2.99	0.09	0.04
128b	3.25	4.05	0.10	0.02



Way=4 Total size / Line size	16kb	32kb	64kb	128kb
32b	1.37	1.19	0.13	0.07
64b	0.70	0.60	0.07	0.04
128b	1.48	0.31	0.04	0.02

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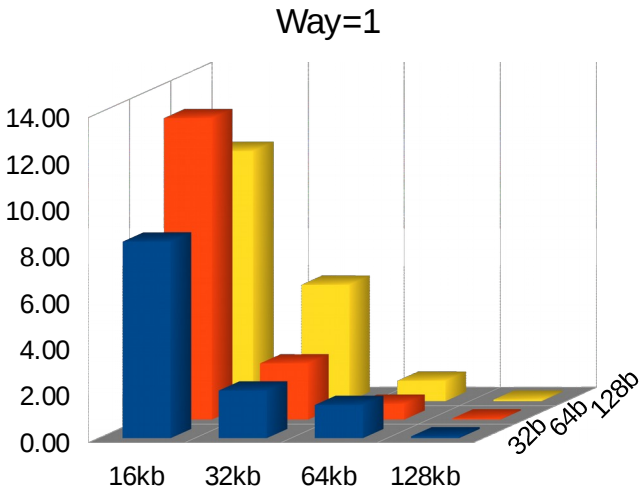
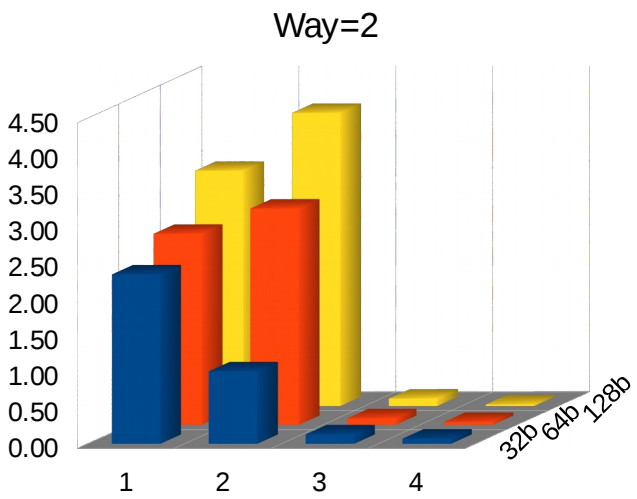
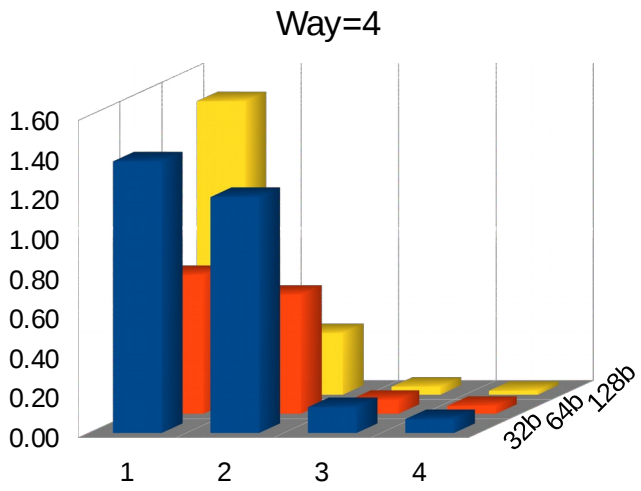
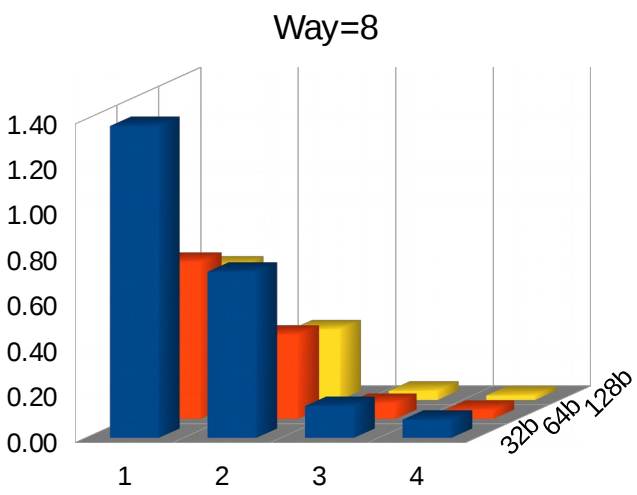
Way=8 Total size / Line size	16kb	32kb	64kb	128kb
32b	1.37	0.73	0.14	0.08
64b	0.69	0.37	0.07	0.04
128b	0.59	0.31	0.04	0.02









Increasing ways seems to increase performance in smaller cache, but doesn't have much change in larger cache size. Increasing cache size increase performance in linearly manner.