Oğuz Kaan İmamoğlu
21702233

Table 1: Row Major / Direct Mapped Cache / N = 61

Block Size / Cache Size	1	2	4	8	16
128	Miss Rate: %91 Miss Count: 3924	Miss Rate: %89 Miss Count: 3856	Miss Rate: %89 Miss Count: 3823	Miss Rate: %88 Miss Count: 3805	Miss Rate: %88 Miss Count: 3796
256	Miss Rate: %91 Miss Count: 3924	Miss Rate: %89 Miss Count: 3856	Miss Rate: %89 Miss Count: 3823	Miss Rate: %88 Miss Count: 3805	Miss Rate: %88 Miss Count: 3796
512	Miss Rate: %91 Miss Count: 3923	Miss Rate: %89 Miss Count: 3856	Miss Rate: %89 Miss Count: 3822	Miss Rate: %88 Miss Count: 3805	Miss Rate: %88 Miss Count: 3796
1024	Miss Rate: %91 Miss Count: 3921	Miss Rate: %89 Miss Count: 3854	Miss Rate: %88 Miss Count: 3821	Miss Rate: %88 Miss Count: 3805	Miss Rate: %88 Miss Count: 3796
2048	Miss Rate: %48 Miss Count: 2024	Miss Rate: %46 Miss Count: 1994	Miss Rate: %52 Miss Count: 2231	Miss Rate: %54 Miss Count: 2350	Miss Rate: %74 Miss Count: 3178

Table 2: Column Major / Direct Mapped Cache / N = 61

Block Size / Cache Size	1	2	4	8	16
128	Miss Rate: %91 Miss Count: 3862	Miss Rate: %45 Miss Count: 1934	Miss Rate: %23 Miss Count: 971	Miss Rate: %11 Miss Count: 488	Miss Rate: %6 Miss Count: 248
256	Miss Rate: %91 Miss Count: 3862	Miss Rate: %45 Miss Count: 1934	Miss Rate: %23 Miss Count: 971	Miss Rate: %11 Miss Count: 488	Miss Rate: %6 Miss Count: 248
512	Miss Rate: %91 Miss Count: 3862	Miss Rate: %45 Miss Count: 1934	Miss Rate: %23 Miss Count: 971	Miss Rate: %11 Miss Count: 488	Miss Rate: %6 Miss Count: 248
1024	Miss Rate: %91 Miss Count: 3862	Miss Rate: %45 Miss Count: 1934	Miss Rate: %23 Miss Count: 971	Miss Rate: %11 Miss Count: 488	Miss Rate: %6 Miss Count: 248
2048	Miss Rate: %91 Miss Count: 3862	Miss Rate: %45 Miss Count: 1934	Miss Rate: %23 Miss Count: 971	Miss Rate: %11 Miss Count: 488	Miss Rate: %6 Miss Count: 248

Table 3: Row Major / Direct Mapped Cache / N = 122

Block Size / Cache Size	1	2	4	8	16
128	Miss Rate: %97 Miss Count: 15148	Miss Rate: %97 Miss Count: 15080	Miss Rate: %97 Miss Count: 15047	Miss Rate: %97 Miss Count: 15029	Miss Rate: %97 Miss Count: 15020
256	Miss Rate: %97 Miss Count: 15148	Miss Rate: %97 Miss Count: 15080	Miss Rate: %97 Miss Count: 15047	Miss Rate: %97 Miss Count: 15029	Miss Rate: %97 Miss Count: 15020
512	Miss Rate: %97 Miss Count: 15148	Miss Rate: %88 Miss Count: 13395	Miss Rate: %97 Miss Count: 15047	Miss Rate: %97 Miss Count: 15029	Miss Rate: %97 Miss Count: 15010
1024	Miss Rate: %97 Miss Count: 15148	Miss Rate: %49 Miss Count: 7514	Miss Rate: %87 Miss Count: 13367	Miss Rate: %97 Miss Count: 15029	Miss Rate: %97 Miss Count: 14896
2048	Miss Rate: %30 Miss Count: 6087	Miss Rate: %49 Miss Count: 7514	Miss Rate: %75 Miss Count: 11501	Miss Rate: %86 Miss Count: 13113	Miss Rate: %97 Miss Count: 14774

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Table 4: Column Major / Direct Mapped Cache / N = 122

Block Size Cache Size	1	2	4	8	16
128	Miss Rate: %30 Miss Count: 314	Miss Rate: %17 Miss Count: 98	Miss Rate: %9 Miss Count: 53	Miss Rate: %5 Miss Count: 29	Miss Rate: %3 Miss Count: 18
256	Miss Rate: %30 Miss Count: 314	Miss Rate: %17 Miss Count: 98	Miss Rate: %9 Miss Count: 53	Miss Rate: %5 Miss Count: 29	Miss Rate: %3 Miss Count: 18
512	Miss Rate: %30 Miss Count: 314	Miss Rate: %17 Miss Count: 98	Miss Rate: %9 Miss Count: 53	Miss Rate: %5 Miss Count: 29	Miss Rate: %3 Miss Count: 18
1024	Miss Rate: %30 Miss Count: 314	Miss Rate: %17 Miss Count: 98	Miss Rate: %9 Miss Count: 53	Miss Rate: %5 Miss Count: 29	Miss Rate: %3 Miss Count: 18
2048	Miss Rate: %30 Miss Count: 314	Miss Rate: %17 Miss Count: 98	Miss Rate: %9 Miss Count: 53	Miss Rate: %5 Miss Count: 29	Miss Rate: %3 Miss Count: 18

Table 5 – For N = 61

	Poor Hit Rate Block Size = 1 Cache Size = 128	Medium Hit Rate Block Size = 16 Cache Size = 2048	Good Hit Rate Block Size = 1 Cache Size = 2048
Direct Mapped	Miss Rate: %91 Miss Count: 3924	Miss Rate: %74 Miss Count: 3178	Miss Rate: %48 Miss Count: 2024
Fully Associative (LRU)	Miss Rate: %88 Miss Count: 3793	Miss Rate: %79 Miss Count: 6833	Miss Rate: %50 Miss Count: 2224
Fully Associative (Random)	Miss Rate: %91 Miss Count: 3924	Miss Rate: %70 Miss Count: 3040	Miss Rate: %44 Miss Count: 1874

Table 5- For N = 122

	Poor Hit Rate Block Size = 2 Cache Size = 128	Medium Hit Rate Block Size = 4 Cache Size = 2048	Good Hit Rate Block Size = 2 Cache Size = 2048
Direct Mapped	Miss Rate: %97 Miss Count: 15080	Miss Rate: %75 Miss Count: 11501	Miss Rate: %49 Miss Count: 7514
Fully Associative (LRU)	Miss Rate: %97 Miss Count: 30157	Miss Rate: %40 Miss Count: 12520	Miss Rate: %50 Miss Count: 7698
Fully Associative (Random)	Miss Rate: %97 Miss Count: 15078	Miss Rate: %56 Miss Count: 8632	Miss Rate: %55 Miss Count: 17190

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Table 6 – For N = 61

N-Way Set Size	Poor Hit Rate Block Size = 1 Cache Size = 128	Medium Hit Rate Block Size = 16 Cache Size = 2048	Good Hit Rate Block Size = 1 Cache Size = 2048
4	Miss Rate: %91 Miss Count: 3924	Miss Rate: %88 Miss Count: 3794	Miss Rate: %80 Miss Count: 3679
8	Miss Rate: %91 Miss Count: 3924	Miss Rate: %88 Miss Count: 3794	Miss Rate: %80 Miss Count: 3679
16	Miss Rate: %91 Miss Count: 3924	Miss Rate: %88 Miss Count: 3794	Miss Rate: %80 Miss Count: 3679

Table 5- For N = 122

N-Way Set Size	Poor Hit Rate Block Size = 2 Cache Size = 128	Medium Hit Rate Block Size = 4 Cache Size = 2048	Good Hit Rate Block Size = 2 Cache Size = 2048
4	Miss Rate: %97 Miss Count: 15080	Miss Rate: %75 Miss Count: 11501	Miss Rate: %49 Miss Count: 7514
8	Miss Rate: %97 Miss Count: 15080	Miss Rate: %75 Miss Count: 11501	Miss Rate: %49 Miss Count: 7514
16	Miss Rate: %97 Miss Count: 15080	Miss Rate: %75 Miss Count: 11501	Miss Rate: %49 Miss Count: 7514