Project #2

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**Experiment #1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Miss rate | | | | | | | | | | | | |
|  | Direct map | | | | | | 4-way associative | | | | | |
|  | 4KB | | 16KB | | 64KB | | 4KB | | 16KB | | 64KB | |
|  | I | D | I | D | I | D | I | D | I | D | I | D |
| 4B |  |  |  |  |  |  |  |  |  |  |  |  |
| 16B |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Total execution cycles | | | | | | | | | | | | |
|  | Direct map | | | | | | 4-way associative | | | | | |
|  | 4KB | | 16KB | | 64KB | | 4KB | | 16KB | | 64KB | |
| 4B |  |  |  |  |  |  |  |  |  |  |  |  |
| 16B |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Miss rate | | | | | | | | | | | | |
|  | Direct map | | | | | | 4-way associative | | | | | |
|  | 4KB | | 16KB | | 64KB | | 4KB | | 16KB | | 64KB | |
|  | N1 | N2 | N1 | N2 | N1 | N2 | N1 | N2 | N1 | N2 | N1 | N2 |
| 4B |  |  |  |  |  |  |  |  |  |  |  |  |
| 16B |  |  |  |  |  |  |  |  |  |  |  |  |

**Experiment #2**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | N1 | | N2 | | Total execution time | |
| Size of write buffer | Trace 1 | Trace 2 | Trace 1 | Trace 2 | Trace 1 | Trace 2 |
| 8 blocks |  |  |  |  |  |  |
| 4 blocks |  |  |  |  |  |  |
| 2 blocks |  |  |  |  |  |  |
| 0 blocks |  |  |  |  |  |  |