1541 Intro To Computer Architecture: Project 2

Austin Linder, Mathew Salami, Kevin Carr

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 |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | L2 Miss Rate | | Total Execution Time | |
|  | Trace 1 | Trace 2 | Trace 1 | Trace 2 |
| 512KB, 4-Way |  |  |  |  |
| 512KB, 8-Way |  |  |  |  |
| 1MB, 8-Way |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Total Execution Cycles | | | | | | |
|  | Direct Mapped | | | 4-Way Associative | | |
|  | 4KB | 16KB | 64KB | 4KB | 16KB | 64KB |
| 4B |  |  |  |  |  |  |
| 16B |  |  |  |  |  |  |

Experiment 2: