Nick Wurzer

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CSC 230-A01

Mike Zastre

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**Mars Statistics for Assignment 4 Part E**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Test Case A** | **Test Case B** | **Test Case C** |
| File 1 | integers-10-6 | integers-40-91 | integers-200-150 |
| File 2 | integers-10-21 | integers-40-101 | integers-200-12345 |
|  |  |  |  |
| **Instructions Statistics** |  |  |  |
| ALU | 280(45%) | 825(40%) | 3705(39%) |
| Jump | 15(2%) | 15(1%) | 15(0%) |
| Branch | 94(15%) | 364(18%) | 1804(19%) |
| Memory | 141(23%) | 471(23%) | 2231(23%) |
| Other | 96(15%) | 370(18%) | 1802(19%) |
|  |  |  |  |
| **BHT Prediction** |  |  |  |
| Best | 100% (index 14) | 100% (index 14) | 100% (index 14) |
| Median | 85% (index 1) | 96.25% (index 1) | 99.25% (index 1) |
| Worst | 66.67% (index 13) | 87.5% (index 3) | 93.75% (index 3) |
|  |  |  |  |
| **Cache(8 lines, 8 words per line)** |  |  |  |
| Direct Mapping | 60% | 54% | 51% |
| 2-way set associative | 80% | 78% | 78% |
| 4-way set associative | 94% | 90% | 91% |
| Fully associative | 94% | 90% | 91% |
|  |  |  |  |