**Computation Timings**

**Note:**

1. **All timings are in milliseconds(ms).**
2. **The timings are recorded for 1000 runs**
3. **Optimization flag was used -O3 while compiling**
4. **Preprocessing are excluded from timings.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phases** | **1 (ms)** | **2 (ms)** | **3 (ms)** | **4 (ms)** |
| **AX + B**  **(Party 1)** | 5.815 | 5.623 | 5.626 | 5.669 |
| **AX + B**  **(Party 2)** | 5.650 | 5.239 | 5.461 | 5.321 |
| **Share Conversion (Party 1)** | 2.832 | 2.965 | 2.927 | 3.586 |
| **Share Conversion (Party 2)** | 1.086 | 1.132 | 1.113 | 1.354 |
| **Phase 3**  **(Randomization)** | 119.988 | 120.496 | 121.538 | 120.129 |
| **PRF**  **(entire PRF excluding preprocessing)** | 132.76 | 137.16 | 136.62 | 136.72 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phases** | **1 (ms)** | **2 (ms)** | **3 (ms)** | **4 (ms)**  **CLION** |
| **Unpacked PRF**  **(Phase 1)** | 1.714 | 1.718 | 1.746 | 21.606 |
| **Unpacked PRF**  **(Generating Rmat)** | 114.323 | 115.174 | 114.741 | 376.366 |
| **Unpacked PRF**  **(Phase 3)** | 0.045 | 0.034 | 0.033 | 61.704 |