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Flopper F- DESIGN

**How many Flops did the code achieve?**

**Ans:**

My code achieved 1604 GigaFlops.

**How many Iops did the code achieve?**

**Ans:**

My code achieved 450 GigaIops .

**Does that match expectation? Where does the discrepancy come from?**

**Ans:**

Code for attaining the peak Flop matches the expectation as 1.6TFlops.

But the Code for attaining the peak Iops does not match the theoretical expectation.

**Reason for Discrepancy:**

According to theoretical data, we have 3 execution ports that enables vector integer operations and 1 scalar integer operations.

But in the logical implementation, the loop has 2 scalar integer operations – incrementor and conditional branch operation that takes up 2 integer ports leaving only 2 execution ports for vector integer operations.

This restricts from carrying out vector integer operations on all 3 execution ports.

**Can you do better? (The closer the benchmark is to the model the more points.)**

**Ans:**

The performance can be improved with increased execution ports such that the sharing of the same execution ports does not take place.