

Machine Problem 2

===== File Description =====

- 1) Main_File.py
➔ This file will contain the main function through which the cache function will be called. This file also contains the function to read the input from the trace file.
- 2) BranchPrediction.py
➔ This file contains the code for executing instruction and prediction for SmithNBit, GShare, Bimodal Branch Prediction.
- 3) HybridPrediction.py
➔ This file contains the logic for executing instruction and prediction for Hybrid Branch Prediction.

===== Command Line Arguments and Execution Steps =====

1) Smith N-Bit Predictor.

Python Main_File.py smith 3 Traces/gcc_trace.txt

2) Bimodal Branch Prediction

Python Main_File.py bimodal 6 traces/gcc_trace.txt

3) G-Share Branch Prediction

Python Main_File.py gshare 9 3 traces/gcc_trace.txt

4) Hybrid Branch Prediction

Python Main_File.py hybrid 8 14 10 5 traces/gcc_trace.txt

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In case of any issues please let me know.

Thank You.