

Programming Assignment 1 Dimitris Vlachos -csd4492

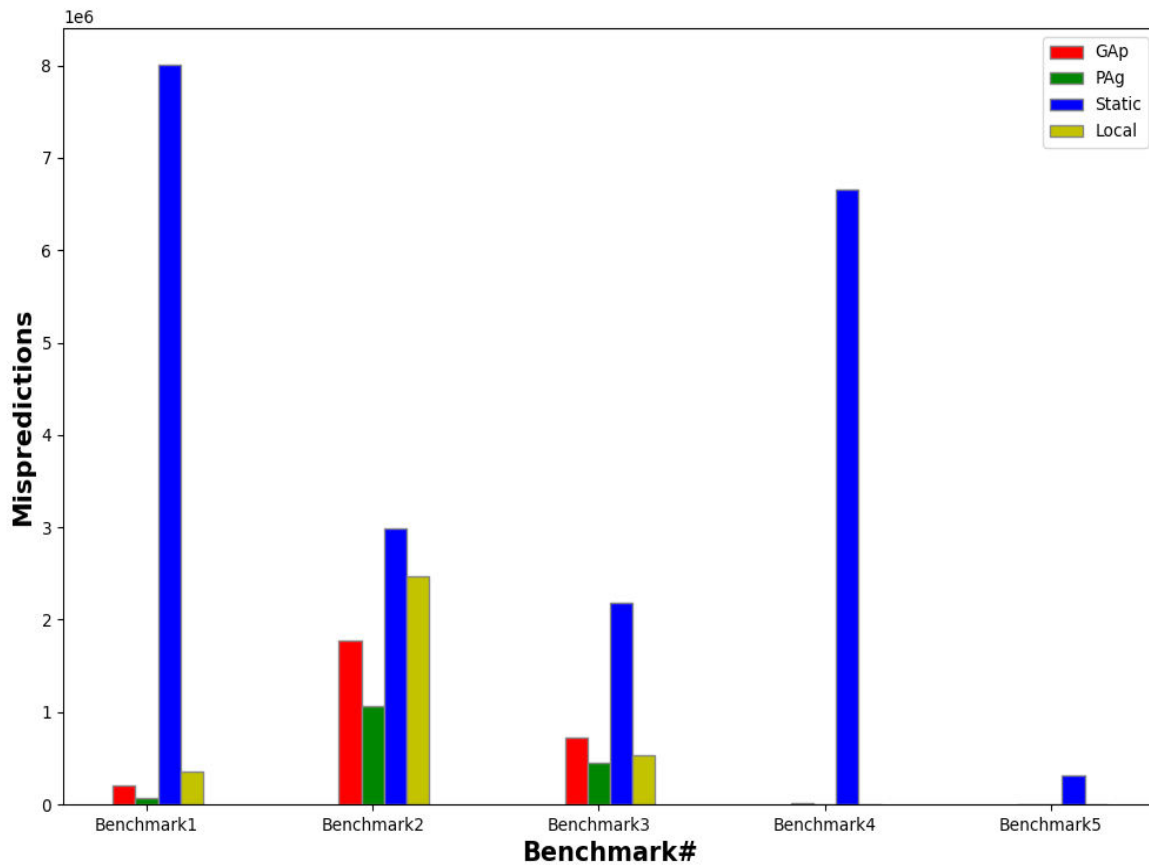
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The above measurements resulted from the simulation executed with the following values:

For Static : BTB Entries :1024

Figure 1



For Local : BTB Entries :1024 Predictor Size:32 Predictor Bits :2

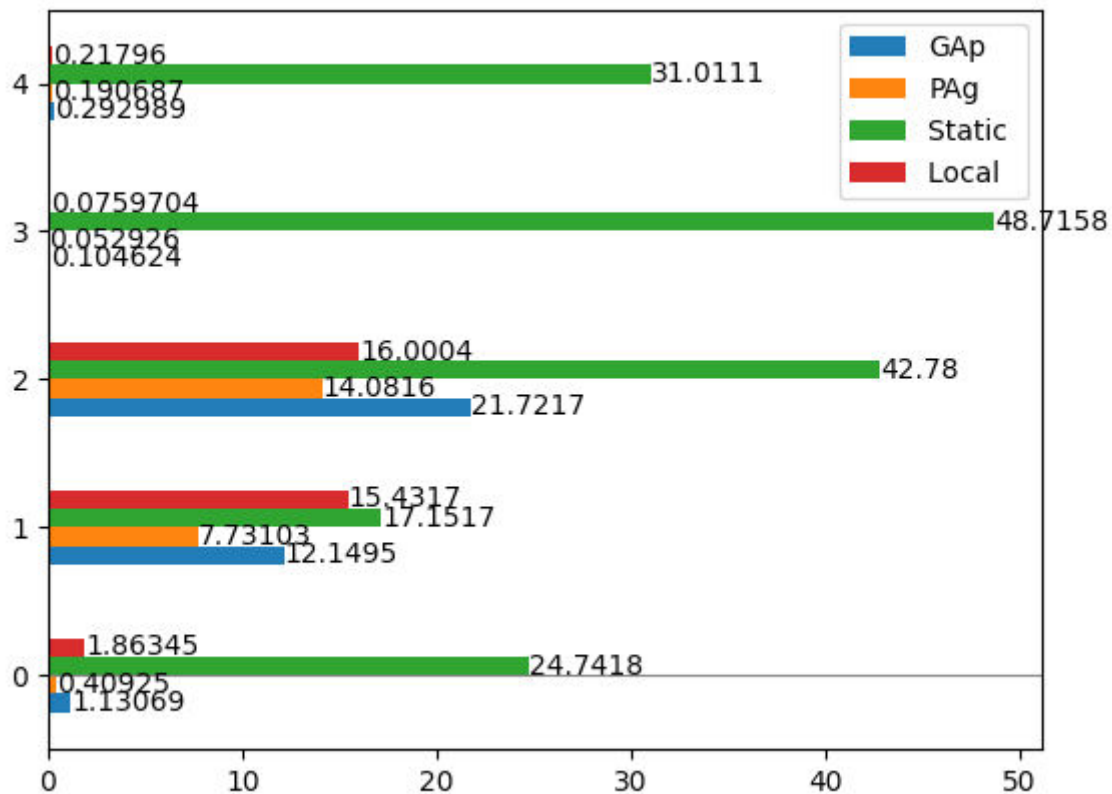
For Gap : BTB Entries :1024 History Size :5 Ptable Height :32 Ptable Width :32 Predictor Bits :3

For Pag : BTB Entries :1024 Ltable Height :256 Lhistory width :5 Gtable Height:32 Gpred Size :3

Number of mispredictions

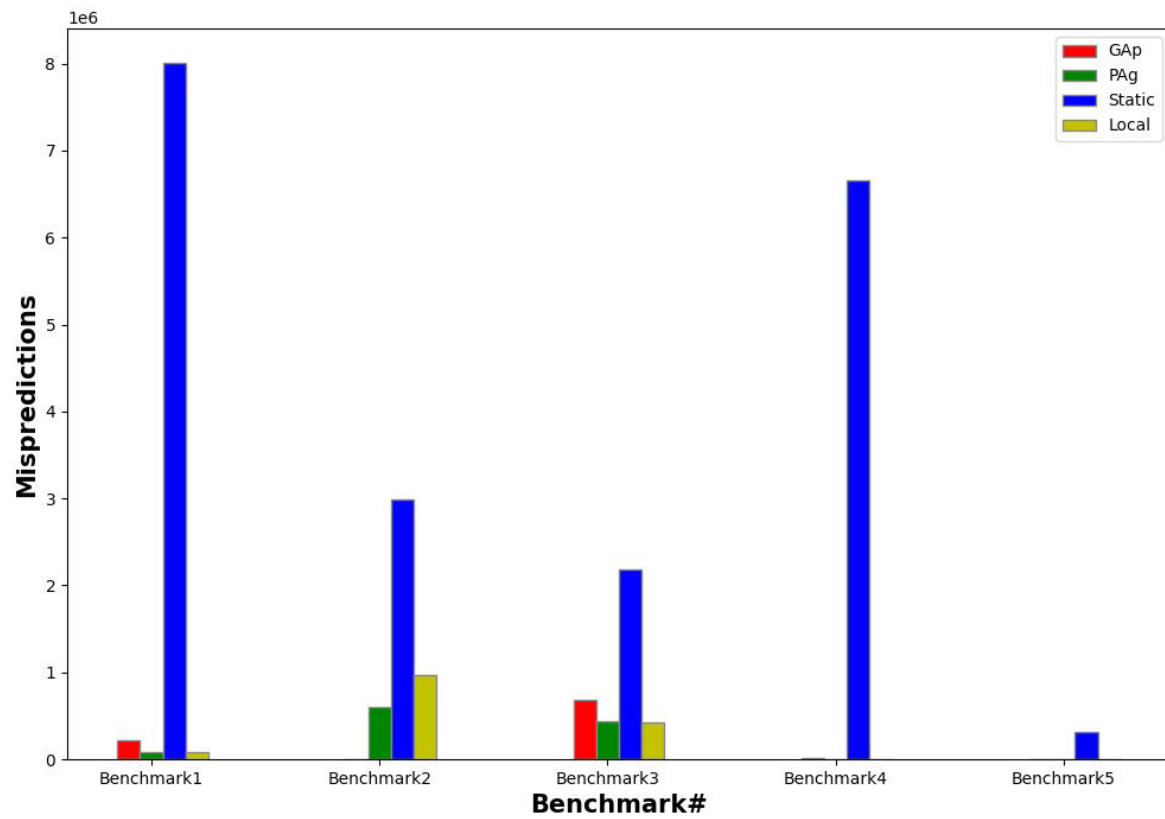
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BMR PLOT

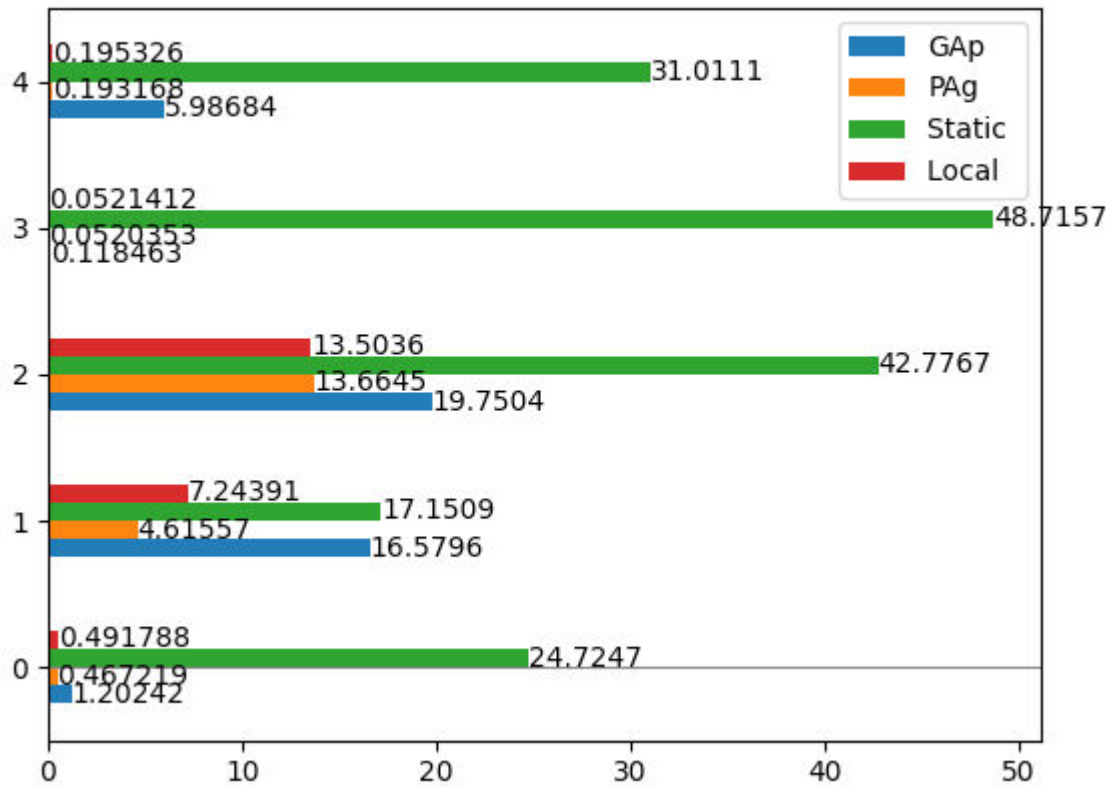


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Running the simulation with memory upper limit of 2048 we get the following results:



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Clearly in this case Pag achieves the best performance in 4 out of 5 benchmarks
In benchmark 3 local predictor is better by 0.1 %