MO601 - Projeto 3

Wormhole: Wisely Predicting Multidimensional Branches

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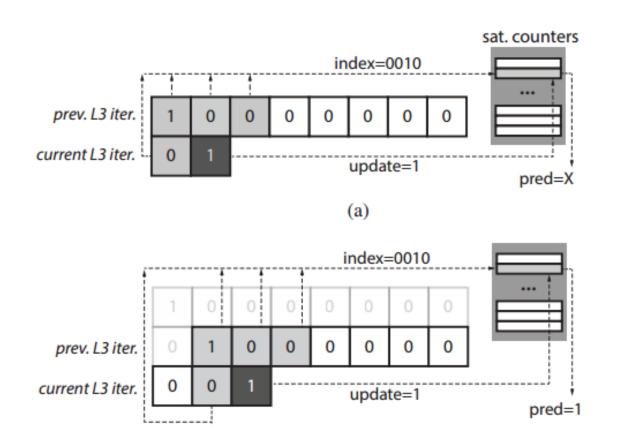
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Situação que queremos melhorar

Como fazemos isso?



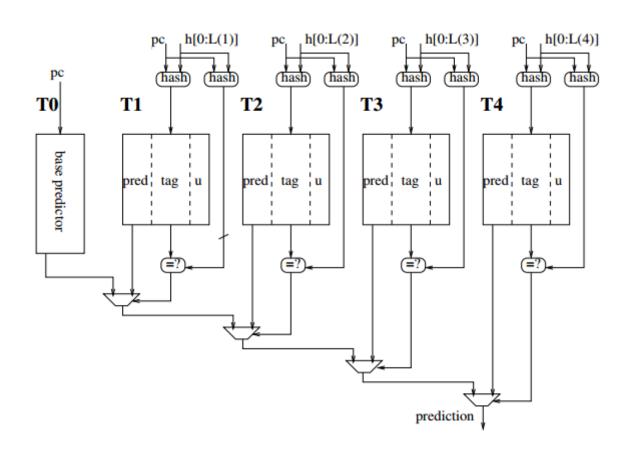
Exemplo para o programa 2.

E os outros Branchs?

ISL-TAGE – "A 64 Kbytes ISL-TAGE branch predictor", André Seznec INRIA/IRISA

- TAGE predictor.
- Loop predictor
- Statistical Corrector predictor (SC)
- The Immediate Update Mimicker

TAGE predictor



O que reproduzir?

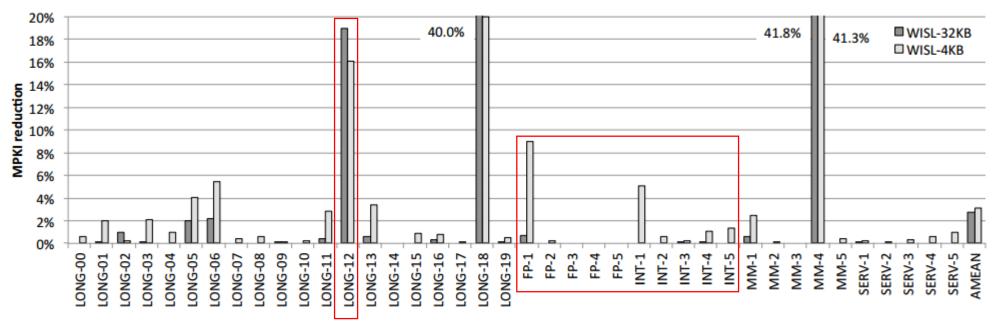


Figure 6: MPKI reductions with respect to ISL-TAGE for the 40 traces, for 4KB and 32KB base predictors.

Referências

Wormhole: Wisely Predicting Multidimensional Branches:
 Jorge Albericio, Joshua San Miguel, Natalie Enright Jerger, and Andreas Moshovos

Edward S. Rogers Sr., Department of Electrical and Computer Engineering, University of Toronto

A 64 Kbytes ISL-TAGE branch predictor:

André Seznec, INRIA/IRISA

A case for (partially) TAgged GEometric history length branch prediction:

André Seznec, Pierre Michaud, IRISA/INRIA/HIPEAC

Analysis of the O-GEometric History Length branch predictor:

André Seznec, IRISA/INRIA/HIPEAC

Obrigado