

The Timing Margin Problem

Vmin [8,22]

Noise mitigation
[6, 7, 47, 48]

Timing
speculation
[5,42,43]

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Active Timing Margin (ATM)

Implementation
[9,10,11,12,13,
14,15,16]

Characterization
[30]

Our Work: Multicore ATM Customization

- High efficiency
- High variation
- Performance management