Event Isolation Flagging Module Progress Update

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Overview

Concept

Function of the event isolation flagging module

Flow diagrams

Block diagrams

Implementation

Implementation in VHDL

Testing in Modelsim

Incorporation into the full AMC40 Firmware



The event isolation flagging module

- Sorts columns in SPP
- Checks each column to see if it is isolated
- Either adds a flag bit or bypasses it



Flow diagrams

Top level



Flow diagrams

Sorter



Block diagrams

Top level



Block diagrams

Active controller



Block diagrams

Data processor



Implementation in VHDL



Testing in Modelsim



Incorporation into the full AMC40 Firmware



Summary

- Implementation in Modelsim is complete
- Mid way through testing

- Outlook
 - Complete testing in Modelsim
 - Test as a standalone module in Quartus
 - Incorporate into full AMC40 firmware

