RAM buffers for 5 rows of image data

Compute SAD for current column

Delay-line for retired column SAD values
(subtract from accumulator when falling outside of window)

Accumulate multiple column SADs to form 5x5 window

Store best disparity (lowest SAD)
Reference Model

Device Under Test

Stimulus

Checker

Behavioral Implementation (untimed C)

Verilog Implementation (device-agnostic)

Optimized Verilog Implementation (device-specific)