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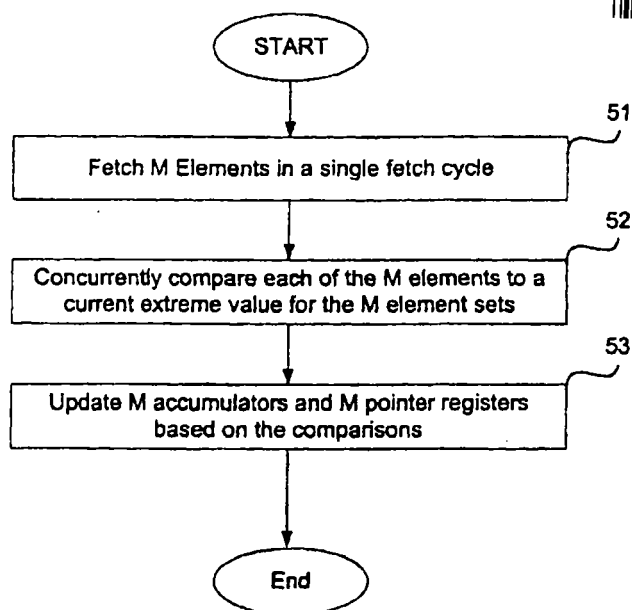
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(54) Title: ARRAY PROCESSING OPERATIONS



ACTION



(57) Abstract: In one embodiment, a programmable processor searches an array of N data elements in response to N/M machine instructions, where the processor has a pipeline configured to process M data elements in parallel. In response to the machine instructions, a control unit directs the pipeline to retrieve M data elements from the array of elements in a single fetch cycle, concurrently compare the data elements to M current extreme values, and update the current extreme values, as well as M references to the current extreme values, based on the comparisons.

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