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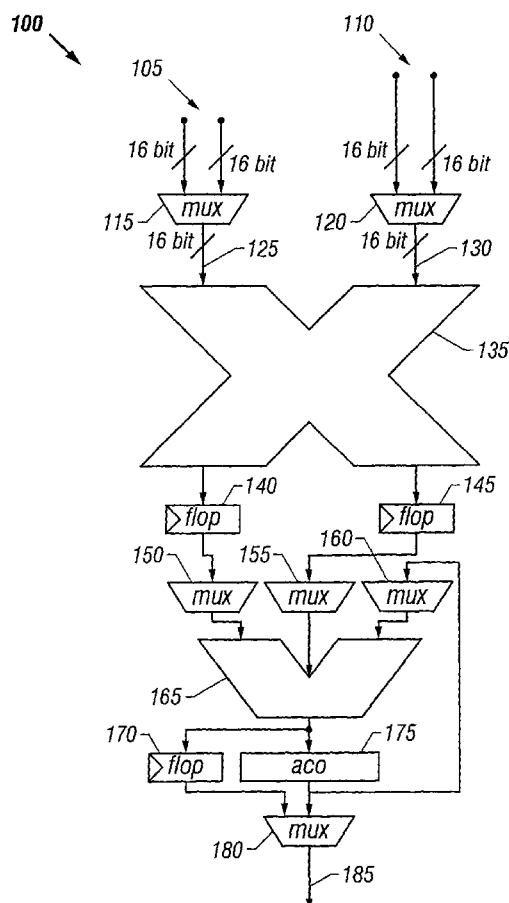
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[Continued on next page]

(54) Title: DSP EXECUTION UNIT FOR EFFICIENT ALTERNATE MODES OF OPERATION



(57) Abstract: In one embodiment, a digital signal processor (DSP) processes both n-bit data and (n/2)-bit data. The DSP includes multiples processing paths. A first processing path processes n-bit data. A second processing path processes (n/2)-bit data. The multiple processing paths may be established using multiple components or may share components. When the processing paths share components, only one of the processing paths may be used at a time.

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