

A Design for Digital, Dynamic Clock Deskew

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Unintentional clock skews between clock domains represent an increasing and costly overhead in high-performance VLSI chips. We describe a novel yet easy-to-implement design that reduces skew between local clock domains dynamically or statically by sensing clock-delay differences and then tuning the clock of each domain relative to its neighbors. Lowering local clock skew is accomplished without compromising worse-case global skew.