
Timing Optimization Clock Skew Scheduling Ivan

timing optimization through clock skew scheduling - cluded in this book are methods on the applicability of clock skew scheduling on circuits with level-sensitive latches, a timing-driven circuit design methodology to attain the maximum performance out of clock skew scheduling and a solution to non-zero clock skew scheduling problem in a parallel comput- **timing optimization through clock skew scheduling - springer** - timing optimization tiirough clock skew scheduling ivan s. kourtev university of pittsburgh eby g. friedman university of rochester springer. science+business media, llc **clock skew optimization via wiresizing for timing sign-off ...** - clock skew optimization via wiresizing for timing sign-off covering all process corners* sari onaissi, khaled r. heloue, farid n. najm department of ece, university of toronto, toronto, ontario, canada **online clock skew tuning for timing speculation** - band needs to be reserved for conventional clock skew optimization techniques. with timing speculation, however, we do not need to guarantee "always correct" operation, which dramatically increases the flexibility and improvement room of clock skew optimization techniques. while existing tim- **clock skew optimization for ground bounce control** - clock skew computation have been proposed in [31, 171, [lo] and [ll]. the ground bounce for these solutions cannot be controlled. clock skew optimization to maximize timing margins tends to group input latches into a skew regime, internal flip-flops into a second regime and finally output latches into a third class. **fast predictive useful skew methodology for timing-driven ...** - (ffs) with negative slacks and does not optimize the clock skew from a global perspective. to optimize the clock skew from the global perspective, clock tree synthesis (cts) must be performed based on the placement results. a useful skew technique adds intentional skew to clock latency, and reduces timing violations while satisfying timing con- **timing analysis with clock skew - stanford university** - keywords: timing analysis, transparent latches, clock skew 1. introduction clock skew is an increasing concern for high speed circuit designers. cycle times have been dramatically shrinking, driven both by faster raw gate delays and by more aggressive designs using fewer gates per cycle [2]. unfortunately, clock skew, the difference between actual **timing-driven variation-aware nonuniform clock mesh synthesis** - clock skew variations adversely affect timing margins, limiting performance, reducing yield, and may also lead to functional ... clock skew based on timing path criticality is generated. the ... behind this work and a review of previous work on clock mesh synthesis and optimization are discussed in section 3. the timing- **race-condition-aware clock skew scheduling** - the lower bound of sequential timing optimization. in the first stage, we use only the setup constraints to determine the clock skew schedule. then, in the second stage, all the race conditions (under the determined clock skew schedule) are resolved by applying the padding method [4]. however, since the first stage **minimizing skew and delay with buffer resizing and ...** - minimizing skew and delay with buffer resizing and relocation during clock tree synthesis preeti punia, rouble, neeraj kr. shukla, and mandeep singh ... and timing. optimization of one design variable can cause problems with the others. large amounts of routing resources are consumed ... clock i.e., skew and delay to meet the timing requirement of **clock skew optimization - computers, ieee transactions on** - clock skew optimization john p. fishburn abstract-this paper investigates the problem of improving the performance of a synchronous digital system by adjusting the path delays of the clock signal from the central clock source to individual flip-flops. through the use of a model to detect clocking hazards, two linear pro-

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