DAC YF

PULSAR: QDI Synthesis Flow





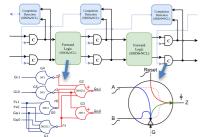
Marcos L. L. Sartori, Ney L. V. Calazans, PUCRS

Introduction and Motivation

- Shift to asynchronous / GALS approaches
- Clock/power domain crossing interconnection
- Quasi-delay-insensitive (QDI)
- · Resilient to variability, ageing, voltage scaling
- Specialised gates and EDA tools

Pseudo-Synchronous SDDS-NCL

- · Conventional synthesis tools (Cadence Genus)
- SDDS-NCL -> Combinational Logic
- Pseudo-Synchronous WCHB -> Sequential Logic



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