

Vivado IPs & Integrated Logic Analyzer

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Topics

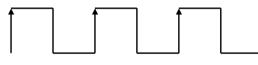


Logic analyzer





Clock





IP = Internet Protocol

= Intellectual Property

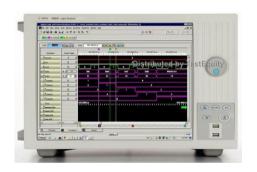




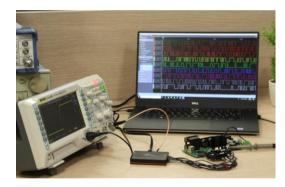


Logic Analyzers

- What are they?
 - Digital signal capturing instruments

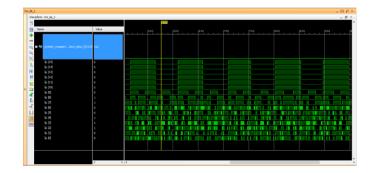






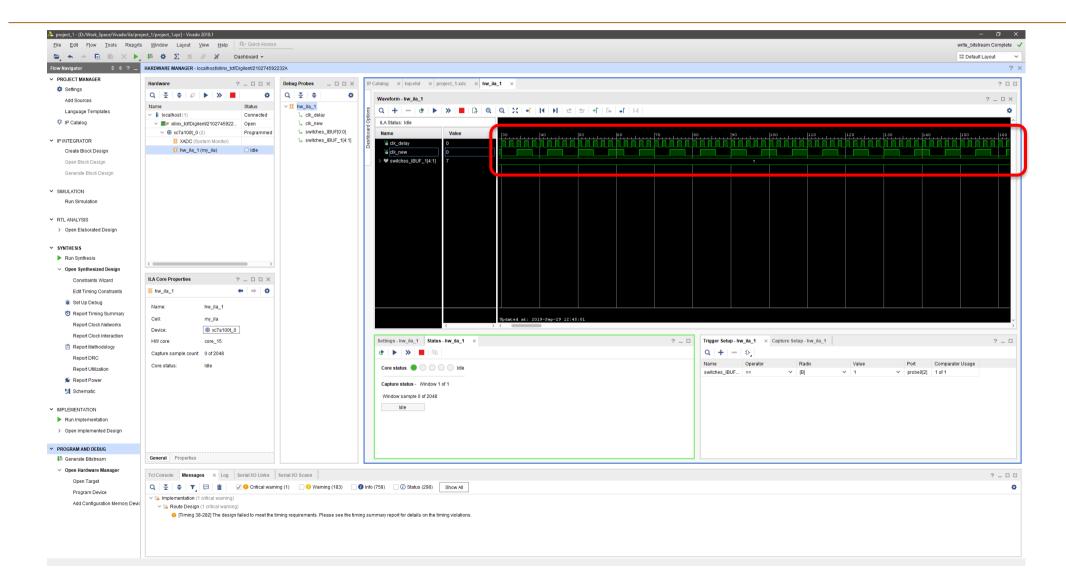


Vivado Integrated Logic Analyzer (ILA)





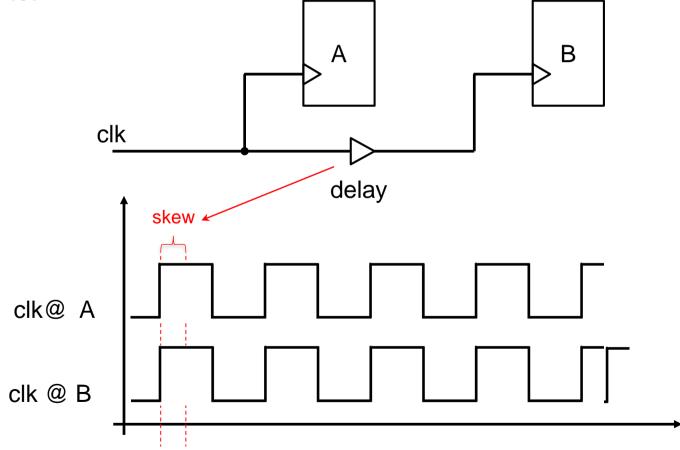
Vivado ILA





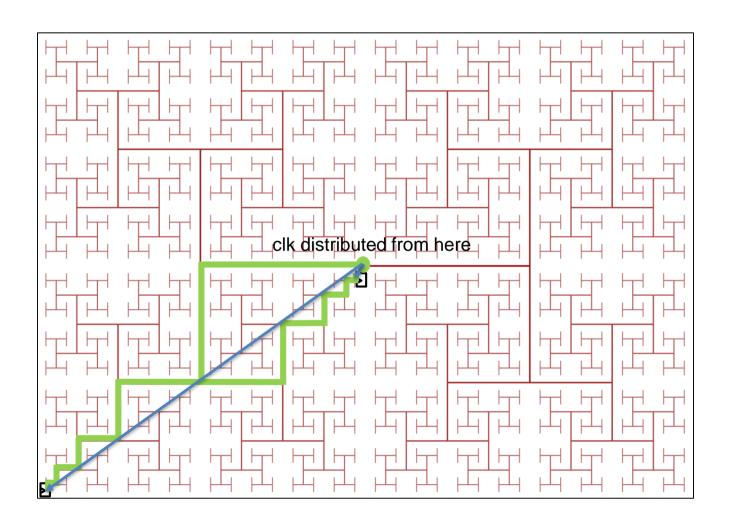
Clock Skew

• What is it?





Clock Tree



H tree



Clocking Question

- Nexys4's clock speed?
 - 100 MHz

What if you need a different speed for some block?



no dedicated fabric

IP & ILA Example

