Lesson 8

Digital Logic

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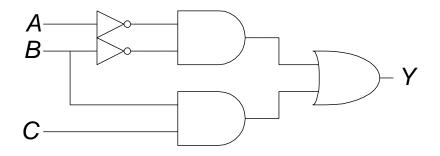
Glitches

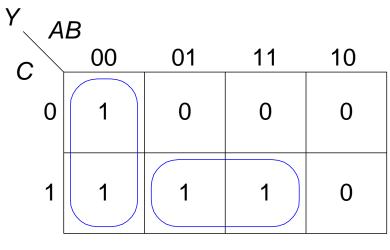
• When a single input change causes an output to change multiple times



Glitch Example

• What happens when A = 0, C = 1, B falls?

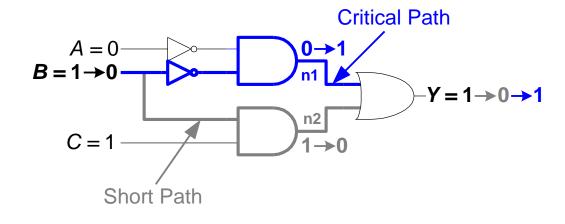


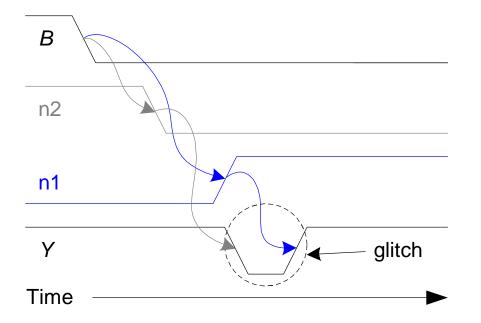






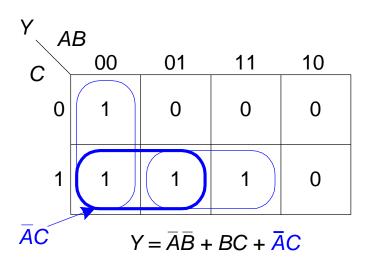
Glitch Example (cont.)

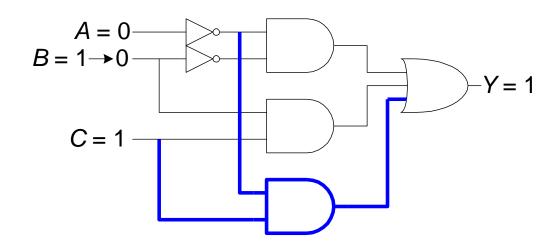






Fixing the Glitch







Why Understand Glitches?

- Glitches don't cause problems because of synchronous design conventions (see Chapter 3)
- It's important to **recognize** a glitch: in simulations or on oscilloscope
- Can't get rid of all glitches simultaneous transitions on multiple inputs can also cause glitches

