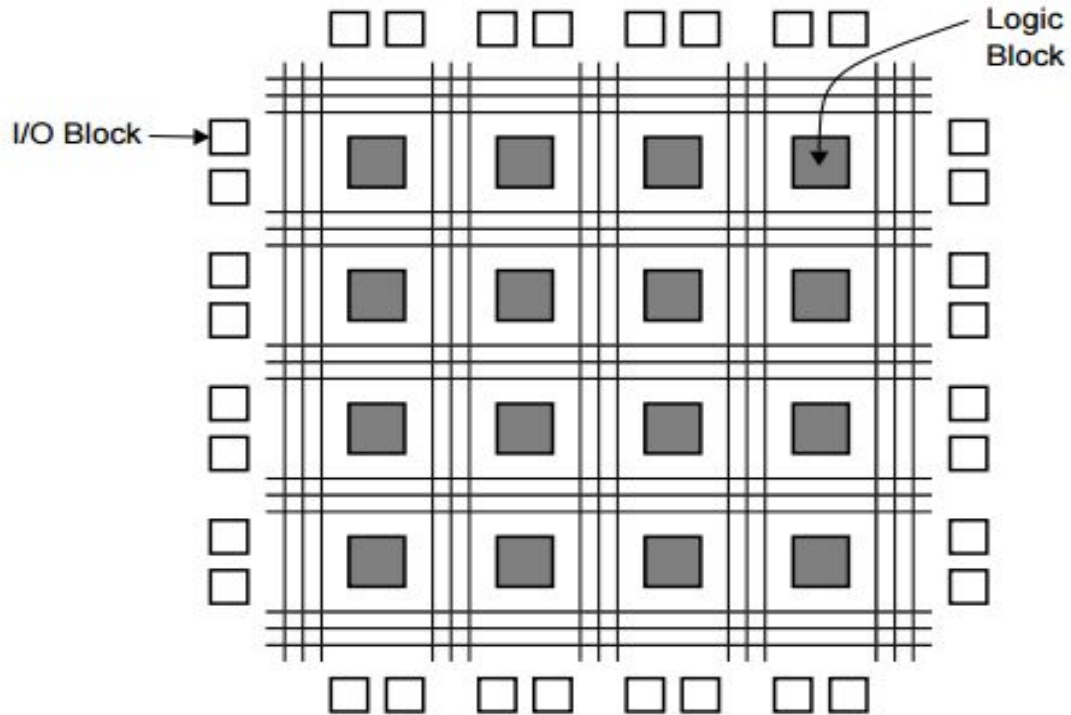


# Introduction to FPGA

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What is an FPGA?

# Structure of an FPGA



# Example

Implement a 4-input AOI gate on FPGA.

# Making an UCF(user constraint file)

Syntax: Net “a1” LOC =”P11”

- Synthesize
- Implement Design
- Generate bit file
- Download to FPGA

# Problem Set 1

Blink an LED.

Input	Output
00	Reset
01	0.5Hz
10	1Hz
11	2Hz

# Problem Set 2

Implement a counter from 0 to 9 on 7-Segment LED.



# Problem Set 3

Implement a counter from 00 to 60 on 7-Segment LEDs.