

دانشگاه تبریز دانشکده مهندسی برق و کامپیوتر

درس طراحی سیستمهای دیجیتال برنامه پذیر

جلسه اول

مقدمهای بر VHDL

تهیه و تدریس

دکتر سیدهادی اقدسی

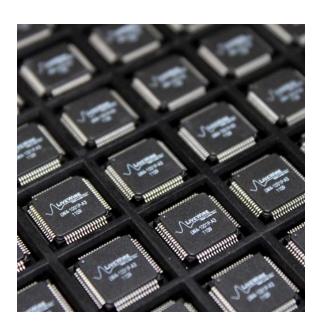
- Function Implementation
 - Digital Signal Processor (DSP)



- √ High Speed
- √ Sequential Mode
- ✓ Low Flexibility
- ✓ High Price



- Function Implementation
 - Application-Specific Integrated Circuit (ASIC)



- √ High Speed
- √ Sequential and Parallel Mode
- √ Low Flexibility
- ✓ High Number of Components
- ✓ High Price



- Function Implementation
 - Field Programmable Gate Arrays (FPGAs)

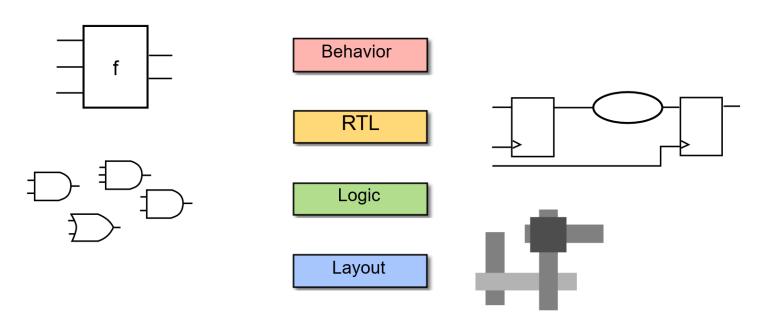




- √ High Speed
- ✓ Sequential and Parallel Mode
- ✓ High Flexibility
- ✓ Acceptable Price

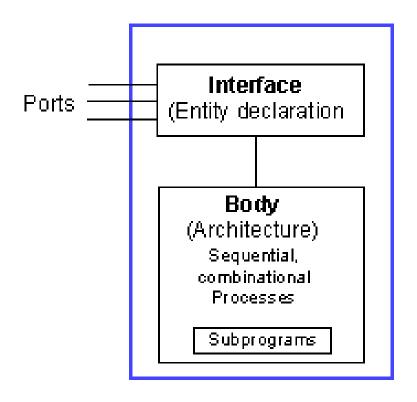
- Very high speed integrated circuit Hardware Description Language
 - Hardware description language used in FPGA

Abstraction Levels:





Components' parts in VHDL







پایان جلسه اول

با آرزوی موفقیت

