

# Chap. 6 Digital Arithmetic: Operations & Circuits

## ■ Introduction

- ◆ This chapter will be concentrate on how computers perform the basic arithmetic operations

## ■ 6-1 Binary Addition

- ◆ Addition is the most important operation in digital systems

- Subtraction, multiplication and division are usually implemented using addition.
- Basic Rules :

$$0 + 0 = 0$$

$$1 + 0 = 1$$

$$1 + 1 = 10 = \text{carry of next position} + 0$$

$$1 + 1 + 1 = 11 = \text{carry of next position} + 1$$

- Binary Example :

$$\begin{array}{r} 011 \text{ (3)} \\ + 110 \text{ (6)} \\ \hline 1001 \text{ (9)} \end{array}$$

$$\begin{array}{r} 1001 \text{ (9)} \\ + 1111 \text{ (15)} \\ \hline 11000 \text{ (24)} \end{array}$$

$$\begin{array}{r} 11.011 \text{ (3.375)} \\ + 10.110 \text{ (2.750)} \\ \hline 110.001 \text{ (6.125)} \end{array}$$

# Digital Arithmetic

**Mark Steyvers**



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