5.03 The system bus

* Definition: A parallel transmission component with each separate wire carrying a single bit. It transmits data between the CPU, the memory and the (I/O) devices.

Type of the busses:

* Address bus

Components that unidirectionally carries an address to the memory controller to identify a location in memory which is to be read from or written to.

Bus width: the number of separate wires, directly related to the amount of data that can be directly delivered at the same time.

* Data bus

Bidirectional components that carries data to and from the processor

word: a small number of bytes handled as a unit of data by the system; usually same as the bus width

* Control bus

Bidirectional components that carries data from the control unit to any other system component or transmits data to the control unit.

* Universal serial bus standard (USB)

The standard for connecting computers to peripherals or computers to computers.