Memory Operands & Operators (Part 1)
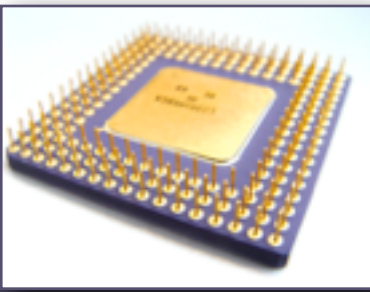
§4.1, §4.3

Whiteboard Notes

▸ Every memory operand has one or more parts of this general form:

$$[base + (index*scale) + displacement]$$

        ↑   ↑   ↑   ↑

  reg32   reg32   1, 2, 4, or 8   32-bit constant

            but not ESP   (data label or data label + constant)

▸ **Whiteboard Notes:**

    ▸ LENGTHOF, SIZEOF operators

    ▸ Direct Memory Operands   displacement only: data label

    ▸ Direct-Offset Operands   displacement only: data label + constant

    ▸ Indexed Operands   displacement + index

    ▸ Scaled Indexed Operands   displacement + index*scale

▸ More memory operands later...