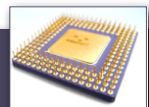


Memory Operands & Operators (Part 1)

§4.1, §4.3

Whiteboard Notes



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

$$[\text{base} + (\text{index} * \text{scale}) + \text{displacement}]$$

\uparrow \uparrow \uparrow \uparrow
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...