

$$37.25_{10} = 25.4_{16}$$

$$25.4_{16} = \underline{100101.01}_2 = 10010101 \times 2^6$$

$$\begin{array}{cccc|cccccccc} \underline{0} & \underline{1} & \underline{0} & \underline{0} & \underline{1} & \underline{0} & \underline{1} & \underline{0} & \underline{1} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} \\ & 4 & & & A & & & & 8 & & & & 0 & & & \end{array}$$

$$\begin{array}{cccc|cccccccc} \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{0} & \underline{1} & \underline{1} & \underline{0} \\ & 0 & & & 0 & & & & 0 & & & & 6 & & & \end{array}$$

$$37.25_{10} = 4A80000_{16}$$

NASA

$$0.2_{10} = 0.\underline{33}_{16} = 0.\underbrace{00110011}_{\dots}$$

$$= \underline{.1100} \times 2^{-2}$$

$$\begin{array}{cccccccccccccccc} & \zeta & & & \zeta & & & \zeta & & & \zeta & & & & & & \\ \text{---} & \underline{1} & \underline{1} & \underline{0}, & \underline{0} & \underline{1} & \underline{1} & \underline{0} & | & \underline{0} & \underline{1} & \underline{1} & \underline{0} & \underline{0} & \underline{1} & \underline{1} & \underline{0} \\ & \zeta & & & & \zeta & & & & & F & & & & E & & \\ \underline{0} & \underline{1} & \underline{1} & \underline{0} & \underline{0} & \underline{1} & \underline{1} & \underline{0} & | & \underline{1} & \underline{1} & \underline{1} & \underline{1} & \underline{1} & \underline{1} & \underline{1} & \underline{0} \end{array}$$

$$-2 = 0000\ 0010$$

$$1's\ comp = 1111\ 1101$$

$$2's\ comp = 1111\ 1110$$

$$0.2_{10} = \zeta\zeta\zeta\zeta\zeta\zeta FE$$

WASA

$$110 = \zeta$$

$$111 = F$$

$$1110 = E$$