

# NASA Format

Convert 37.25 and 0.2 into NASA format.

37.25  $37_{10} = 100101_2$   $.25_{10} = .01_2 \Rightarrow 100101.01_2$

$100101.01_2 = 1.0010101 \times 2^5$

$2_{10}^6 = 100000_2$

Power Character

00101010 | 00000000 | 00000000 | 00100000

Hex

2 A

0 0

0 0

2 0

2A000020

0.2

$0.2_{10} = .00110011_2 = 1.1001 \times 2^{-3}$

0011 1110 | 0100 1100 | 1100 1100 | 1100 1101

3 E

4 C

C C

C D

3E4CCCCD