

# Floating Point Numbers

C x BE

Where C = Coefficient, B = Base and E = Exponent

Number of bits in Exponent determines range

Number of bits in Coefficient determines precision

Floating point numbers:

Range = Finite

Number of values = Finite

Spacing = Gap between numbers varies

Errors = Incorrect results are possible

Zones of Expressibility:

e.g. assume numbers are formed with a signed 3-digit coefficient and a signed 2-digit exponent (in base 10)

