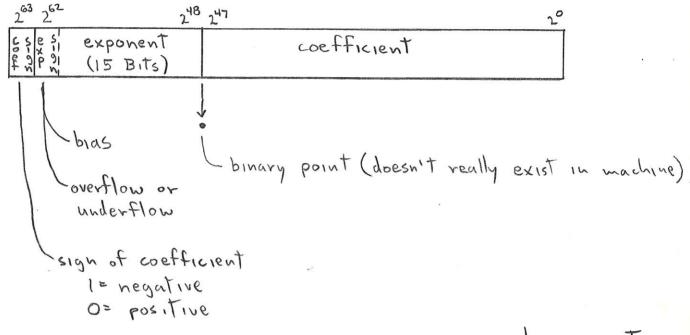
Hardware Reference Page 4-13 (Floating Put Anthoneti

## Floating Point Data Format



numerical value = coefficient x 2 signed exponent

## Coefficient

48 Bit Binary Number

Highest Order Bit is Normally a 1 and if this is

True the binary number is said to be normalized.

Range, in Decimal, of Normalized coefficient equals

.5,0 (.48) > 1.0,0 (.777 m) 778

## Exponent 15 Bit Binary Number

200008 represents a zero exponent

coefficient × 2° is represented in machine by coefficient × 2'

exponent > 40000 represents positive exponent

exponent < 40000 represents negative exponent

il × 2° is represented in machine as .1 × 2<sup>40000</sup>

il × 2¹

il × 2¹

il × 2³

i