

ZMIENNOPRZECINKOWE (FLOATING-POINT)

(10) $x = 6 \cdot \bar{x} \cdot 10^e$

$6 = +1 \vee -1$ znak

$0,1 \leq \bar{x} < 1$ mantysa, e - potęga (exponenta)

$12.462 = (.12462) \cdot 10^2$

$6 = +1$, mantysa - 0.12462, eksponenta - 2.

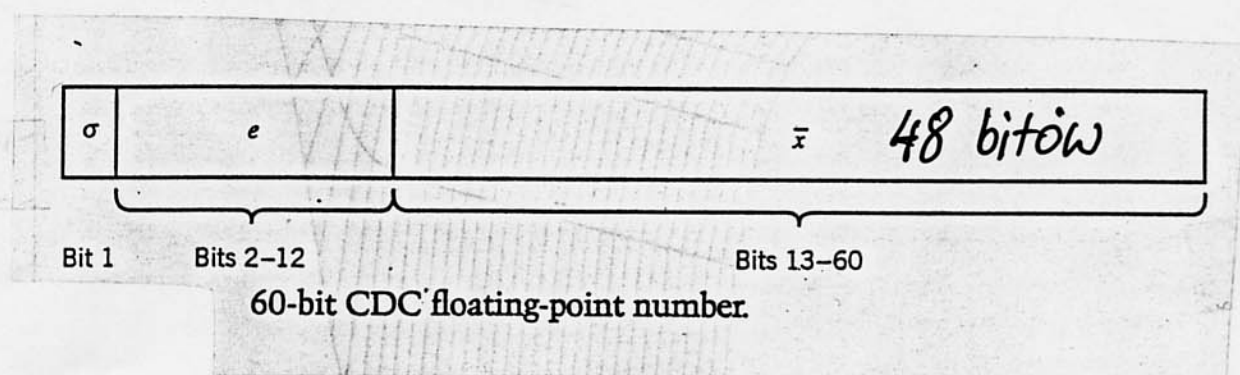
(2) $x = 6 \cdot \bar{x} \cdot 2^e$

$w()_2$ $(.1)_2 < \bar{x} < 1$, $w()_{10}$ $\frac{1}{2} \leq \bar{x} < 1$

$x = (1101.10111)_2 \Rightarrow 6 = +1, e = (4)_{10} \vee (100)_2$

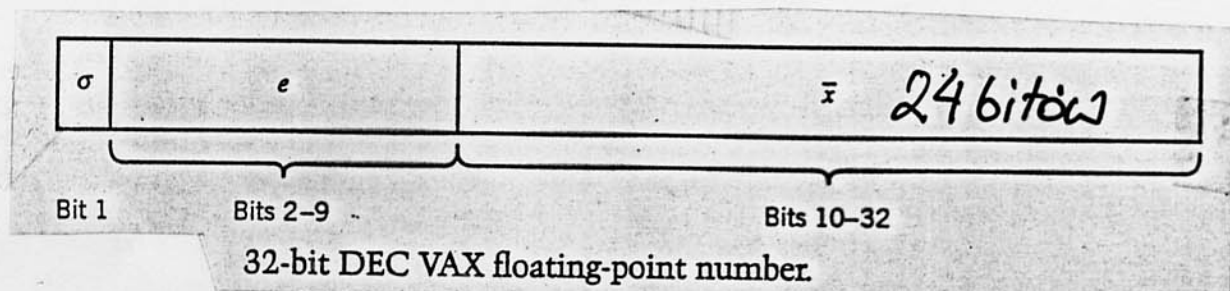
$\bar{x} = (.110110111)_2$

1)



$-975 \leq e \leq 1071$

2)



$-127 \leq e \leq 127, \frac{1}{2} \leq \bar{x} < 1$

$\bar{x} = (.1a_2a_3 \dots a_m)_2$

1 - pierwszy znak nie jest pamiętany (zawsze 1)