

IEEE standard

1. primjer Koji realni broj jednostruke preciznosti je zapisan u memoriji računala?

1	1	0	0	0	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Predznak: 1 znači da je broj negativan.

Eksponent: $10001011_{(2)} = 138_{(10)}$

Od broja 138 oduzmemo 127. $138 - 127 = 11$

Mantisa je 0110100000000000000000 (bez vodeće jedinice).

U računalu je zapisan binarni broj: $-1,01101 \cdot 2^{11}$

Pretvorimo dobiveni broj u dekadski:

$$-1,01101 \cdot 2^{11} = (1 \cdot 2^0 + 0 \cdot 2^{-1} + 1 \cdot 2^{-3} + 0 \cdot 2^{-4} + 1 \cdot 2^{-5}) \cdot 2^{11} = (1 + 0,25 + 0,125 + 0,03125) \cdot 2048 = \mathbf{2880_{(10)}}$$

Rj. $2880_{(10)}$

1.zadatak Koji realni broj jednostruke preciznosti je zapisan u memoriji računala?

0	0	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Rj. $0,15625_{(10)}$

2.zadatak Koji realni broj jednostruke preciznosti je zapisan u memoriji računala?

1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Rj. $4,5_{(10)}$