CS342/CS343 Spring 2022   
Instructor: Professor Izidor Gertner

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Fixed Point Representation

Table

Description automatically generated with low confidence

(-1) \* (1000 0011) + (.001) = - (1\*27 + 1\*2 + 1) + (2-3)

Table

Description automatically generated = - (128 + 2 + 1) + (1/8) = -131 + 1/8 = -1048/8 + 1/8 = -1047/8

The decimal point is shifted 4 places to the left, so we can multiply by 24.

-1047/8 \*

(-1) \* (1000) + (.0011001) = - (8) + (2-3 + 2-4 + 2-7)

= -8 + 25/128 = -1024/8 + 25/128 = -999/128