Fatih Yildiz 02.4) We use the formula . X= 0, m. 3 to calculate the numbers we represent. In order to be able to represent -00, +00, NaN, we have to reserve some values. I decided to reserve the exponent configuration " + + + + + " for this purpose. (so we can use the "---- configuration for values very close to 0) exponent mondissa having signed Zeros. So we have a unique representation for Then, Zero. Also, eliminates the need for subnormal numbers to represent Zero. maximum positio number biggerthan 2128 in broary f. p. repr) movimum regate number exp: ===== m:=±±±±±±±±=) x=-0,166.3-121 (closer to zero -121 ~-0,166 tm - (2-126) in binary 8.p. repr)

=) So the absolute range for normalized numbers: 0,166.3 121 < | X | < 0,5.3120 As we can see, with this design, we can represent a wider range of values (also the ones closer to 0) than binary floatry point format with high precision.