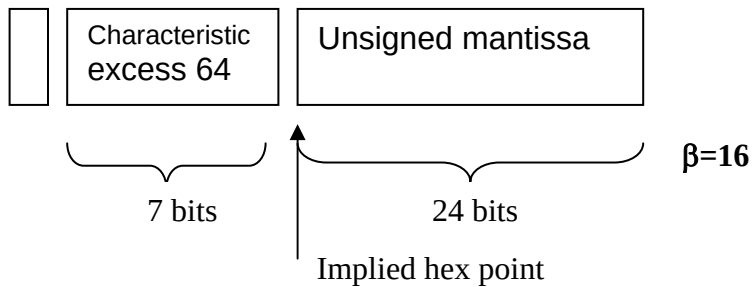


York University
Dept. of Computer Science and Engineering
CSE4210
Quiz 1
Oct. 16, 2006
25 minutes

Problem 1 (5 points)

Consider the short IBM floating point format



What is the range of normalized positive numbers that could be represented using that format?

What if the mantissa is in binary with the implied binary point?

Problem 2 (5 points)

What are the steps in adding 2 floating point numbers?

Problem 3 (5 points)

Show how to use $N/2 \times N/2$ multipliers to implement an $N \times N$ multiplier