Operating Systems and Architecture UFCFCU-30-1

Day 1 Tasks

Explain binary coded decimal. How does it work? What was it used for? Is it still used?

Are there any other physical forms of representing binary other than electricity, magnetism and electromagnetic?

What is octal and why was it used?

Explain with examples the two problems with Signed-Magnitude

What are the problems with floating point precision and rounding? Give two catastrophic examples.

The following tasks must be done manually

Convert the following binary numbers to decimal:

01000101
11101101
01110111
10101010

Convert the following decimal numbers to hexadecimal

31
173
204
153

Convert the following hexadecimal numbers to binary

BB
22
9F
FA

Convert the following binary numbers to hexadecimal

10111011
10000100