Template Week 1 – Bits & Bytes

Student number: 575943

Bonus point assignment – week 1

Convert your student number to a hexadecimal number and a binary number.

Explain in detail that the calculation is correct. Use the PowerPoint slides of week 1.

My student number: 575943

Hexadecimal:

Step one:

575943/16 = 35996 with 7 spare

Step two:

35996/16 = 2249 with 12 to spare

Step three:

2249/16 = 140 with 9 to spare

Step four:

140/16 = 8 with 12 to spare

Step five:

8/16 = 0 with 8 to spare

The final hexadecimal value is then: 8C9C7

575943

Binary:

575943/2=287971 remainder 1

287971/2=143985 remainder 1

143985/2=71992 remainder 1

71992/2=35996 remainder 0

35996/2=17998 remainder 0

17998/2=8999 remainder 0

8999/2=4499 remainder 1

4499/2=2249 remainder 1

2249/2=1124 remainder 1

1124/2=562 remainder 0

562/2=281 remainder 0

281/2=140 remainder 1

140/2=70 remainder 0

70/2=35 remainder 0

35/2=17 remainder 1

17/2=8 remainder 1

8/2=4 remainder 0

4/2=2 remainder 0

2/2=1 remainder 0

1/2=0 remainder 1

Binary: 10001100101110001111

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