CS 201 (David Gerhard): Introduction to Digital Systems


David Gerhard

a1

Submit to urcourses, in PDF, DOC(X), or text format. PDF is preferred. Be sure to follow all assignment expectations.

Question 1: practice converting from binary to decimal. Note: you can check your work using a calculator, but you will not be permitted calculators on the exam so it is in your best interest to practice doing this by hand.

Convert the following unsigned base-2 values to base-10:

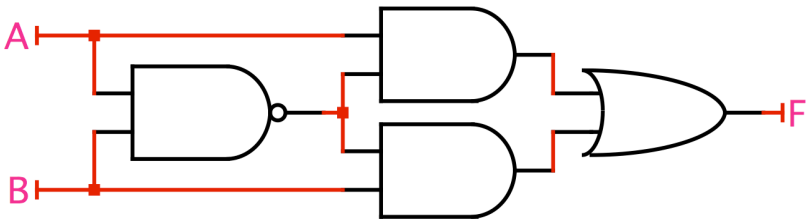
a. 1110
b. 11011
c. 101010

Question 2: estimate the value of these powers-of-2 using the generalization shown in class. Calculate the exact value, and determine the percent error.

1. 2^{12}
2. 2^{16}
3. 2^{32}

Question 3:

a. Write the logic function represented by this circuit



b. Write the logic function for the two-level minimum cost design (SOP).

c. Write the logic function in product-of-maxterms canonical form.

Assignment deliverables:

all files must have the indicated filenames (replace 200200000 with your student number):

1. Assignment file containing you r solutions to all questions, named “A1_200200000.docx” or “A1_200200000.pdf”

Submission status

Submission status	Submitted for grading
Grading status	Graded
Due date	Friday, 16 September 2016, 11:55 PM
Time remaining	Assignment was submitted 1 day 14 hours early
Last modified	Thursday, 15 September 2016, 9:36 AM
File submissions	A1_200312488.pdf
Submission comments	Comments (0)

Feedback

Grade	30.00 / 30.00
Graded on	Monday, 19 September 2016, 11:51 AM
Graded by	 Zhi Cao
Annotate PDF	Mandeep Singh_645387_0.pdf View annotated PDF...

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