

# Errata

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Last Revised: May 13, 2012

In this document, I'll collect corrections/additions made to lectures.

- April 2, 2012

Converting  $(3.14)_{10}$  to binary takes a little longer than I thought it did during the lecture. Here's the correct conversion:

$n$	$\lfloor n/2 \rfloor$	$n \bmod 2$	
3	1	1	Result: <u><u><math>(11)_2</math></u></u>
1	0	1	

$n$	$\lfloor n \times 2 \rfloor$	$n \times 2 - \lfloor n \times 2 \rfloor$	
0.14	0	.28	
0.28	0	.56	
0.56	1	.12	
0.12	0	.24	
0.24	0	.48	
0.48	0	.96	
0.96	1	.92	
0.92	1	.84	
0.84	1	.68	
0.68	1	.36	
0.36	0	.72	
0.72	1	.44	
0.44	0	.88	
0.88	1	.76	
0.76	1	.52	
0.52	1	.04	
0.04	0	.08	
0.08	0	.16	
0.16	0	.32	
0.32	0	.64	
0.64	1	.28	
0.28	0	.56	
⋮	⋮	⋮	

Result:  $(.001000111101011100001)_2$

Altogether:  $(11.001000111101011100001)_2$

- April 7, 2012

Above table had “0.4” and “0.8” instead of “0.04” and “0.08” (which it now has).

- May 13, 2012

In Homework 6 Problem 3, I neglected to include a crucial detail: what format do we assume  $A = A_4A_3A_2A_1$  and  $B = B_4B_3B_2B_1$  are in? (Unsigned? Signed magnitude? Signed 2's complement? Signed 1's complement?)

To make the circuit easy to implement, we'll assume that  $A$  and  $B$  are *unsigned* binary numbers. We could do the same thing for numbers in other formats, but the circuit may need to change.

The Homework's due date will be extended to Wednesday, May 16 to account for this omission.