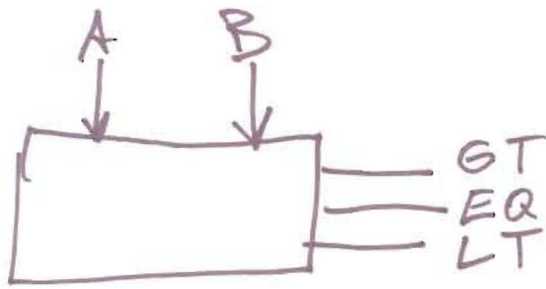


ECGR 2181 - Extra notes - 10/4/09

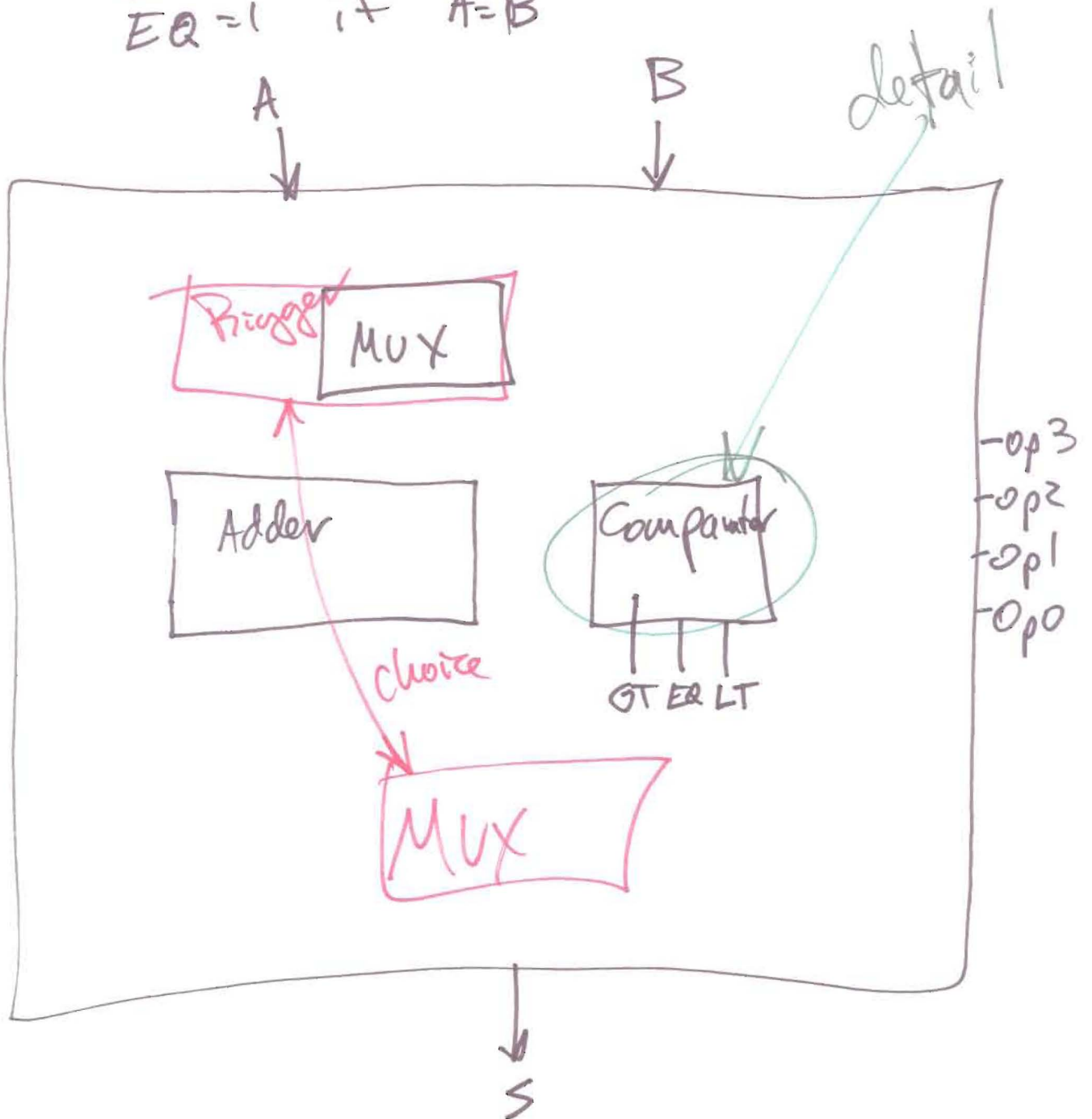
①

Homework 9

hints



GT=1 if A > B
LT=1 if B > A
EQ=1 if A = B



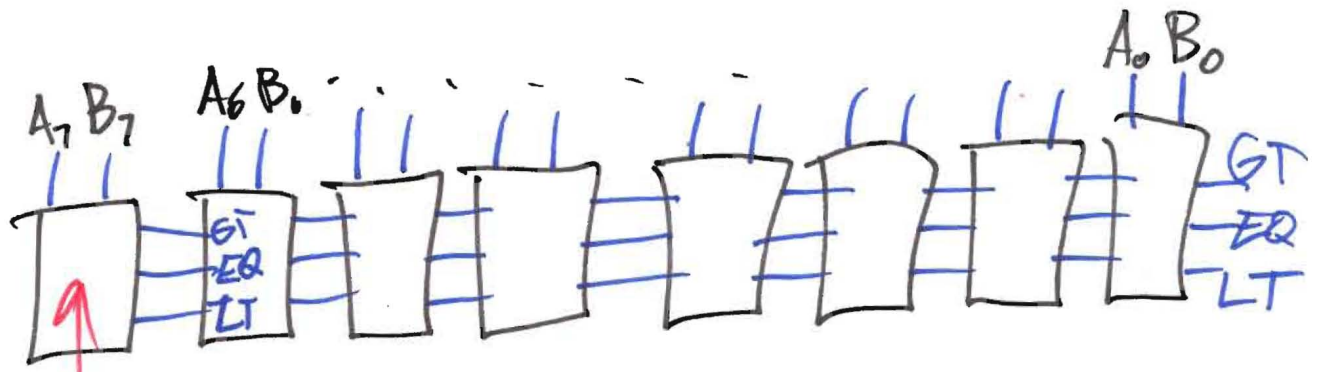
ECGR2181 - Extra Notes - 11/4/09

(2)

	8 bit Unsigned	8 bit 2's Comp
A = 10000000	GT, 128	-128
B = 01111111	127	127, GT

	8 bit Unsigned	8 bit 2's Comp
A = 1111 1110	254	-2
B = 1111 1111	255, GT	-1 GT

	8 bit Unsigned	8 bit 2's Comp
A = 0000 0001	1	1
B = 0000 0010	2 GT	2 GT



Comparator - 8-bit
Different - how?

		2's Complement		
A7	B7	GT	EQ	LT
0	0	0	1	0
0	1	1	0	0
1	0	0	0	1
1	1	0	1	0

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B_0	B_1	GT_I	EQ_I	LT_I	GT_0	EQ_0	LT_0
X	X	X	X	1	0	0	1
X	X	1	X	X	1	0	0
0	0	0	1	0			
0	1	0	1	0			
1	0	0	1	0			
1	1	0	1	0			

(3)

Through chapter 3, slide 9