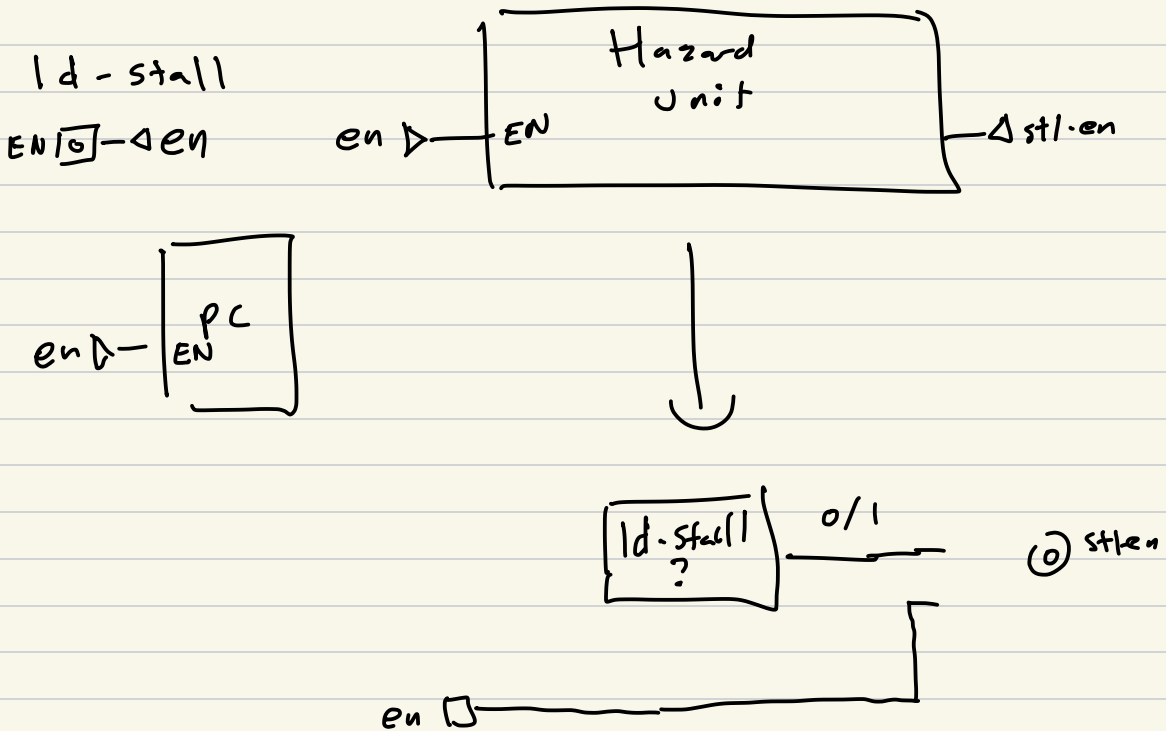


CS 315-01 Advanced Architecture Final Review

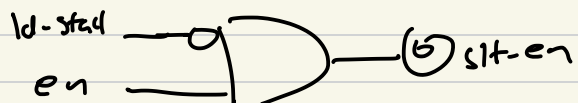
Project 07 Q&A

Advanced Architecture

Final Exam Practice Problems



ld-stall	en	stl-en
0	0	0
0	1	1
1	0	0
1	1	0



Speculative Execution

Out of Order Execution

ld t_0 , (a0)

→ add t_1 , t_2 , t_3

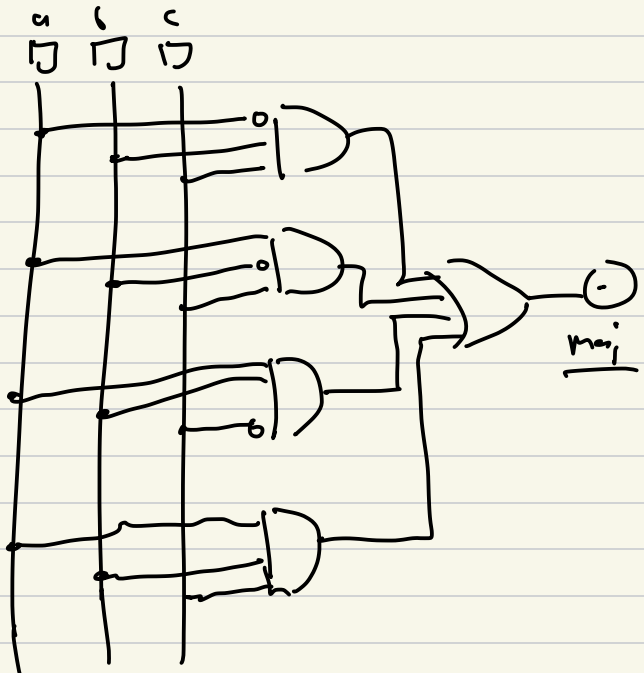
Lab 11

Question 1 - sum-of-products

Majority

	a	b	c	majority
	0	0	0	0
	0	0	1	0
	0	1	0	0
✓	0	1	1	1
	1	0	0	0
✓	1	0	1	1
✓	1	1	0	1
	1	1	1	1

$$\text{majority} = (\bar{a} \cdot b \cdot c) + (a \cdot \bar{b} \cdot c) + (a \cdot b \cdot \bar{c}) + (a \cdot b \cdot c)$$



Question 3

