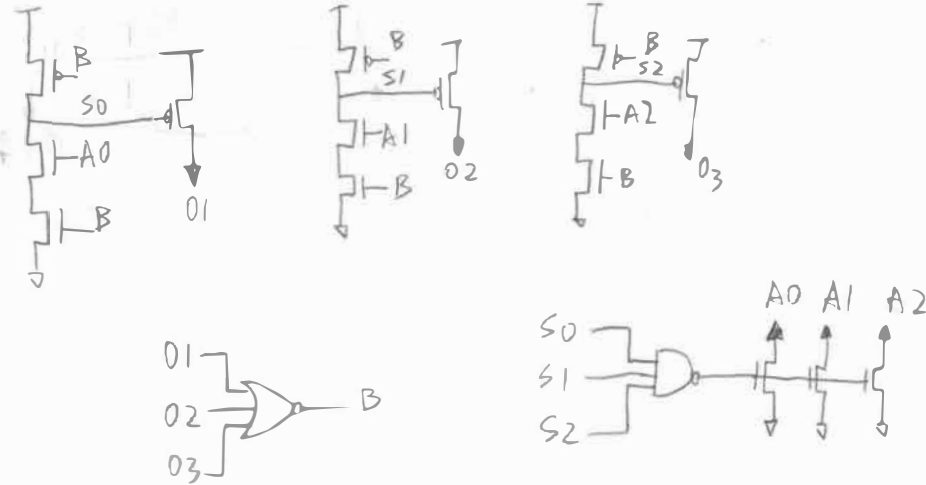


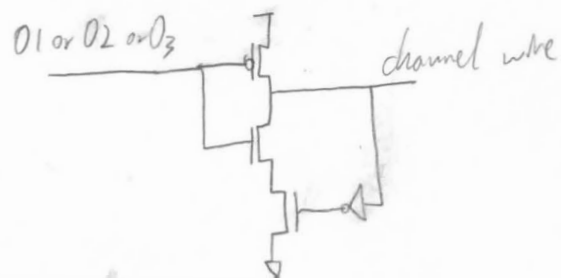
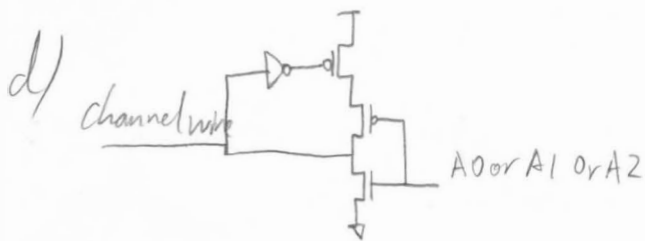
part one

a.



- b)
- 1) Output can only be generated when all input are present, and the output can go neutral before all the inputs go neutral
  - 2) the semi weak conditioned template, out put can go neutral before all the input goes to neutral. weak conditioned template, Lock first and then output can go neutral.
  - 3) the RCD will fill the gap

c) FL is the time from input to 010203, from input to output request  
 BL is the time from 010203 goes through Nor to B and S0S1S2 through hand to input, from output request to input request.



## Part Two

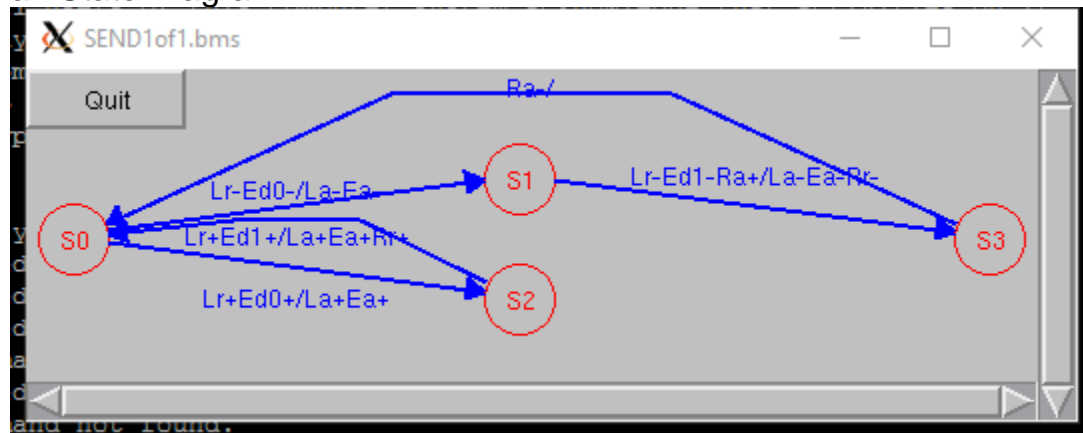
### 1. Minimalist Setup

Briefly explain each command we used in Minimalist:

- Read-spec: Read the Burst-Mode specification in <file> and store it in <spec-var>, or, if <spec-var> is not specified, 'theSpec'.
- min-states: Minimize the states of the Burst-Mode specification in <spec-var>. If <new-spec-var> is present, the resulting specification is stored there. Otherwise, <spec-var> is overwritten with the new specification. If '-F' is specified, assume all outputs are fed back as inputs. If '-H' is specified, the state cover is calculated heuristically.
- assign-states: Encode the states of the Burst-Mode specification in <spec-var>. State minimization is typically performed first, but need not have been. If '-F' is specified, assume all outputs are fed back as inputs.
- min-logic: Perform 2-level logic minimization on the Burst-Mode spec in <spec-var>. The specification MUST already have been encoded. The state encoding currently in effect for the specification is used.
- verify-logic: Verify the logic implementation of the Burst-Mode spec <spec-var>.

### 2. SEND1of1 Design

#### a. State Diagram



b. Minimalist Input:

Name SEND1of1

Input Lr 0

Input Ed0 0

Input Ed1 0

Input Ra 0

Output La 0

Output Ea 0

Output Rr 0

0	1	Lr+	Ed1+		La+	Ea+	Rr+
0	2	Lr+	Ed0+		La+	Ea+	
2	0	Lr-	Ed0-		La-	Ea-	
1	3	Lr-	Ed1-	Ra+		La-	Ea-
3	0	Ra-					

c. Plot:

