

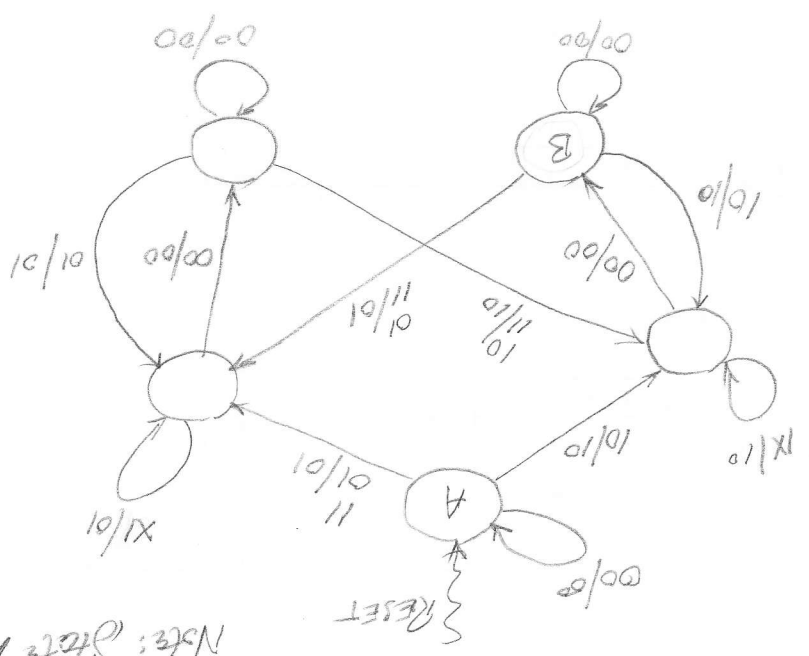
COMMUNICATING FSMs

ARBITER: Many Machines. Gives ACK IMMEDIATELY.

REQA, REQB / ACKA, ACKB

Notes: State A & B are arbitrators:

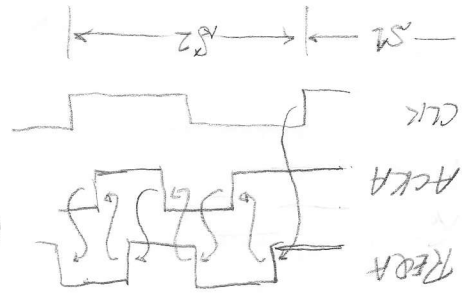
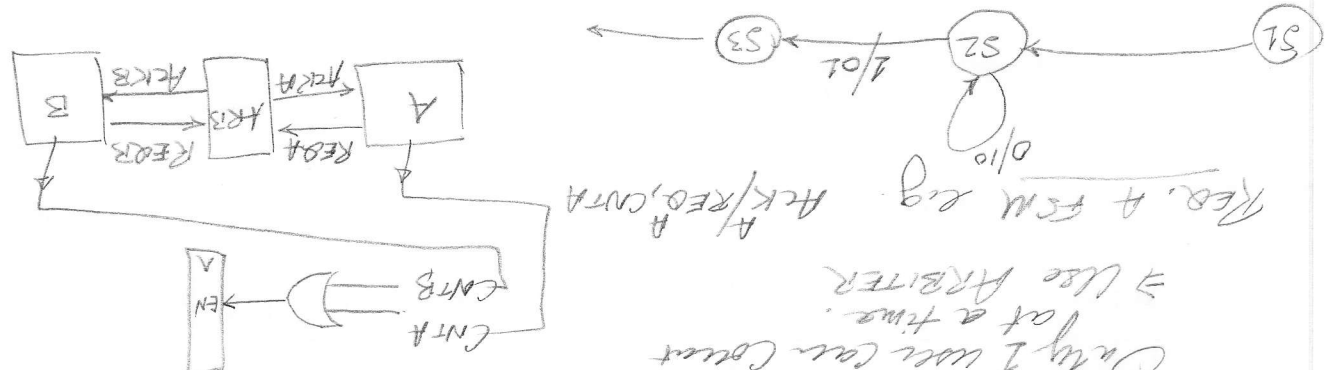
1. Same output
2. Transition to requester states.



REQUESTER, eg. arb for access to counter.

Only I will ever count at a time.  $\Rightarrow$  Use ARBITER.

Req. A FSM e.g. ACK/REQA, CNTA



OR Make REQ a (REQUESTER) (OR BOTH)

Solution  
EITHER Make ACK a (ARBITER)  
OR Make REQ a (REQUESTER) (OR BOTH)