

ENGINEERING ONLINE

Lecture Notes

Course Number:

CSC 513

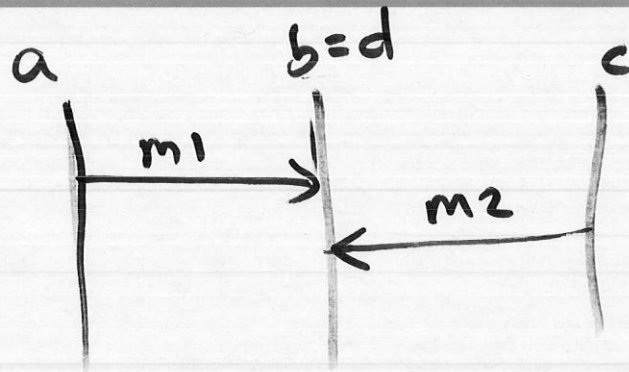
Instructor:

Dr. Singh

Lecture Number:

10



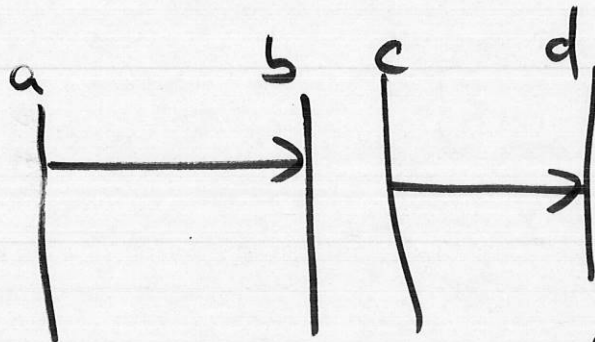


$m1 : a \rightarrow b$

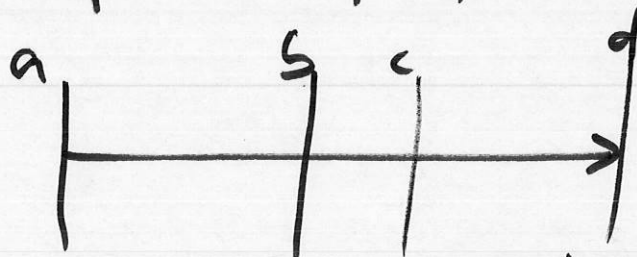
$m2 : c \rightarrow b$

we want to assert
 $m1$ precedes $m2$

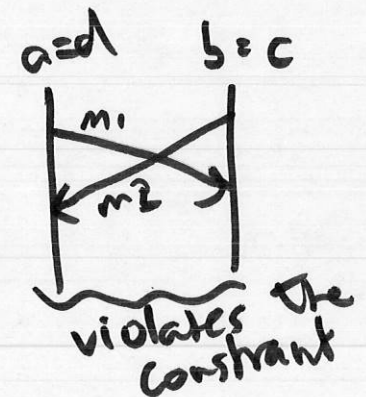
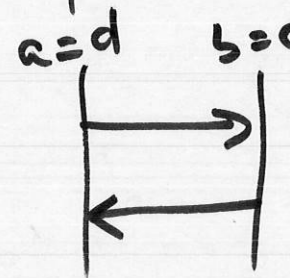
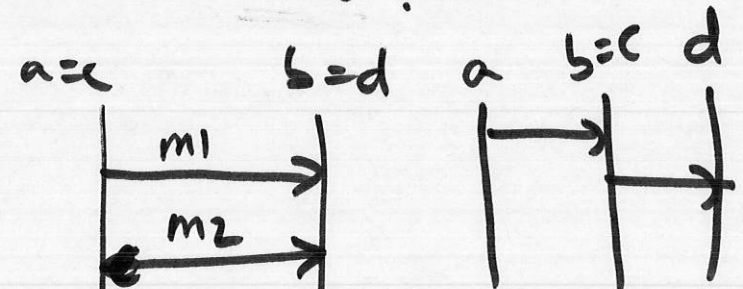
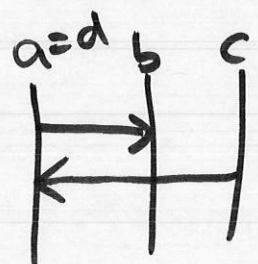
$m1$ precedes $m2$



WHAT ARE ALL THE POSSIBILITIES
IN TERMS OF MSCs?

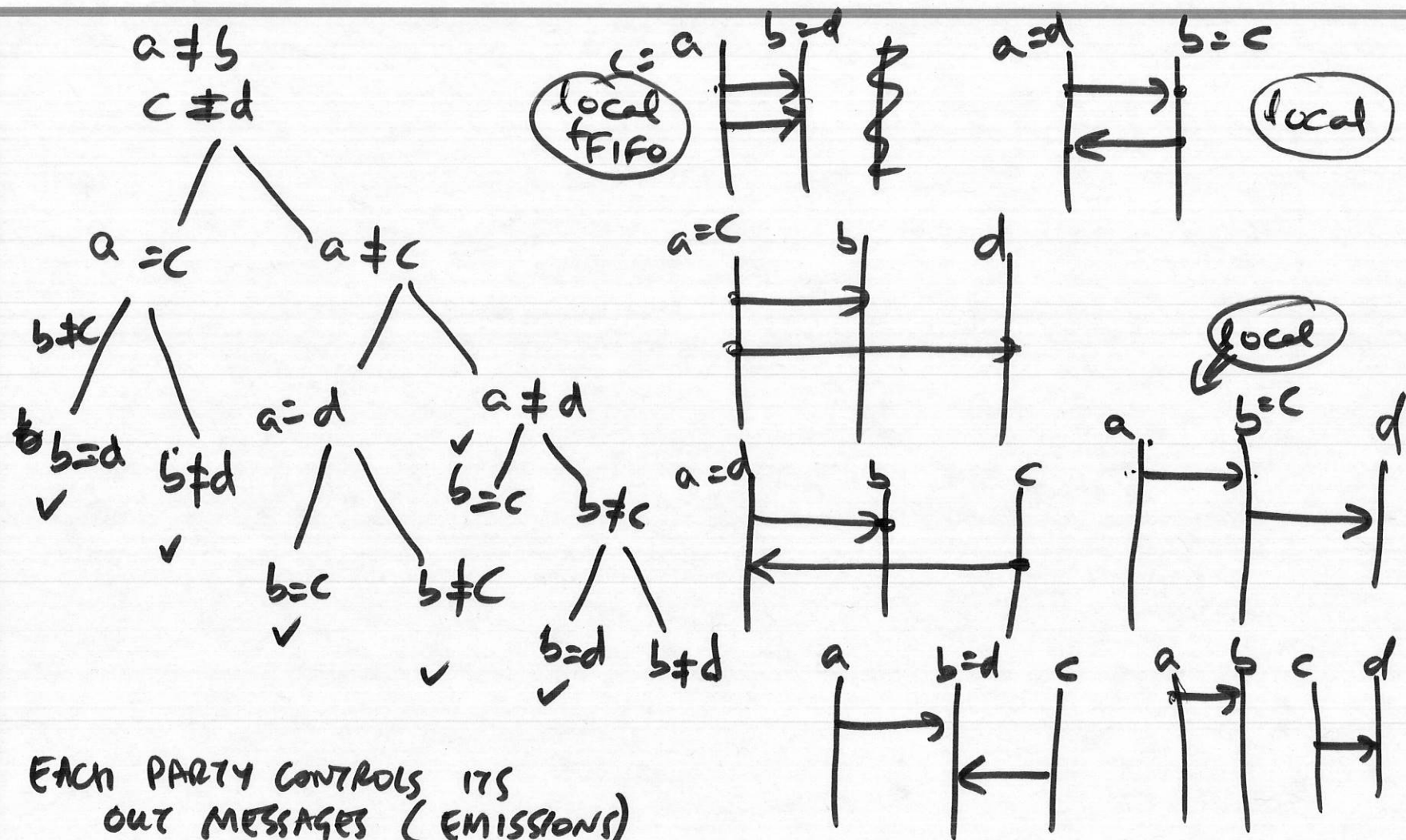


TYPE
VIOLATION



$s(m1) > s(m2)$
 $r(m1) < r(m2)$

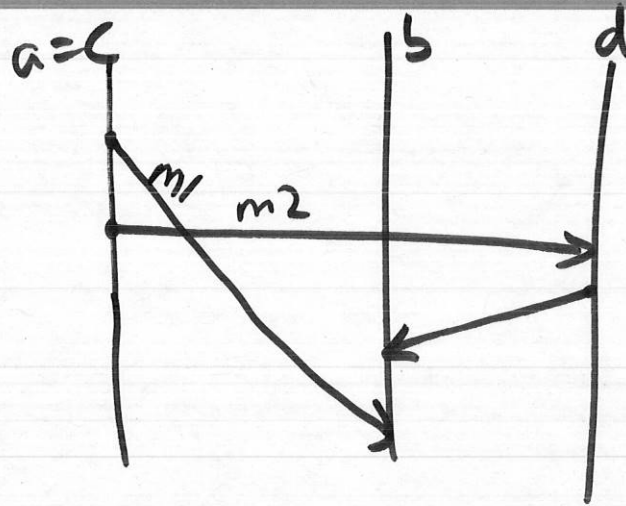




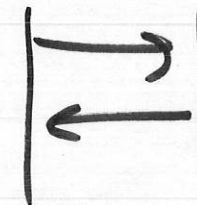
EACH PARTY CONTROLS ITS
OUT MESSAGES (EMISSIONS)
BUT NOT ITS
IN MESSAGES (RECEPTIONS)

NO GLOBAL CLOCK
"RATE INVARIANCE"



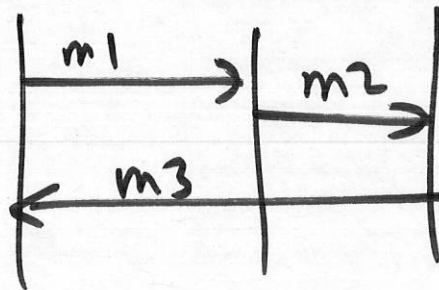


DESIGNERS
ARE OVERCAUTIOUS

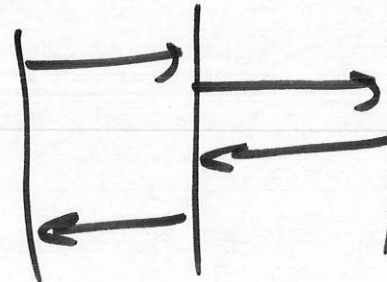


MSE,
+ACH

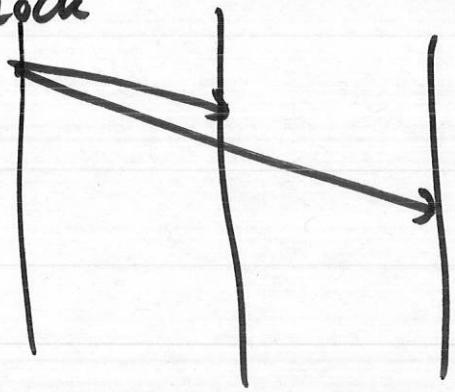
GO
FOR THE
REQUEST-
RESPONSE
PATTERN



vs



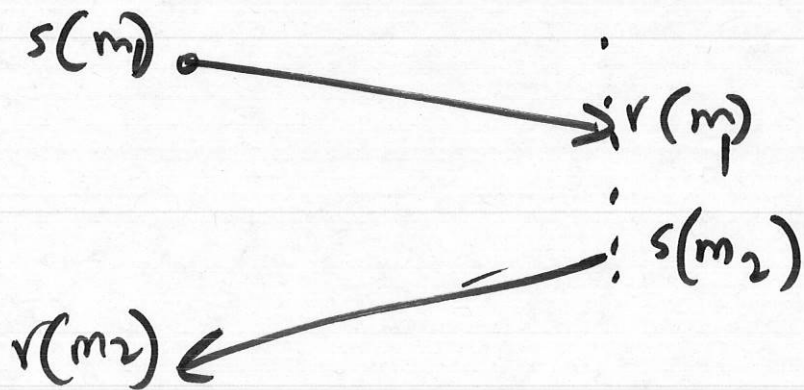
CLOCK

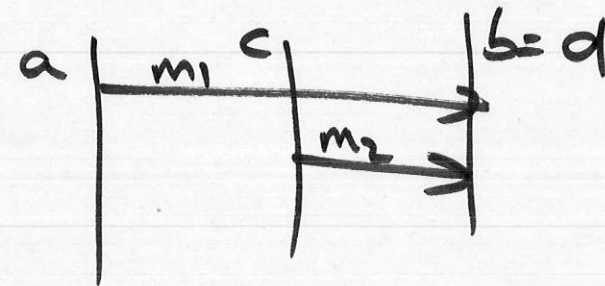
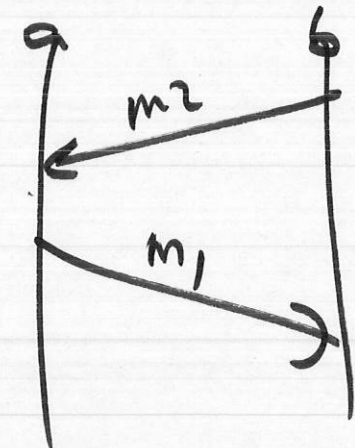
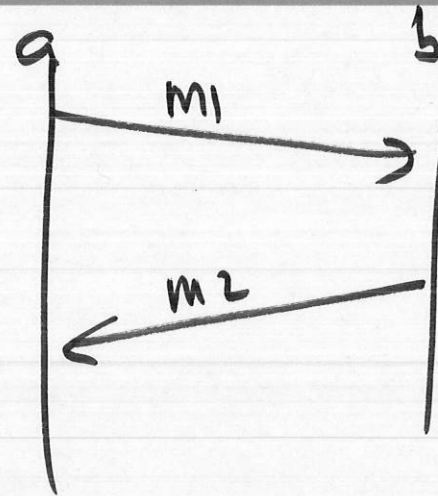
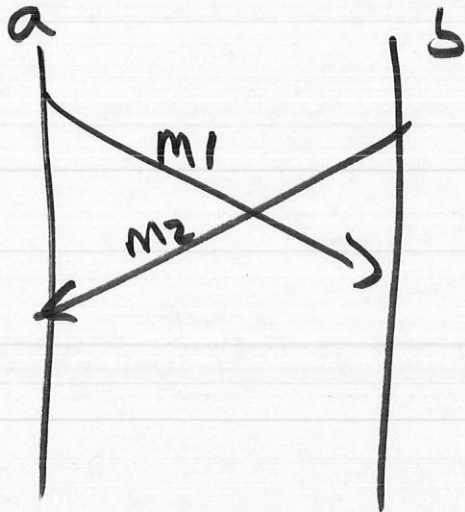


"SPEED OF LIGHT" DREAMS NOT THE MOST IMPORTANT

EINSTEIN'S VIEW

(NOT IN THE EQUATIONS, BUT IN INTUITION)

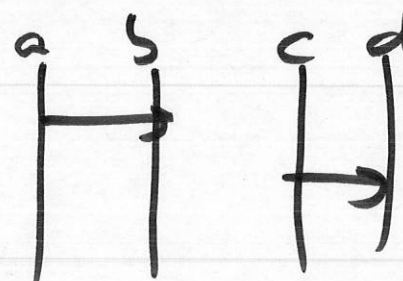
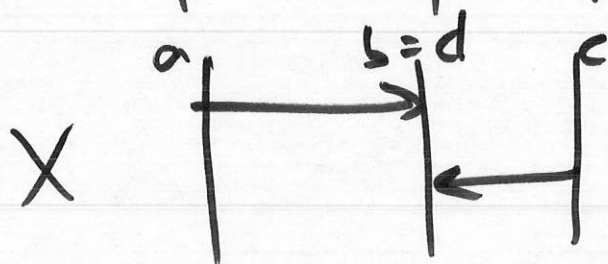
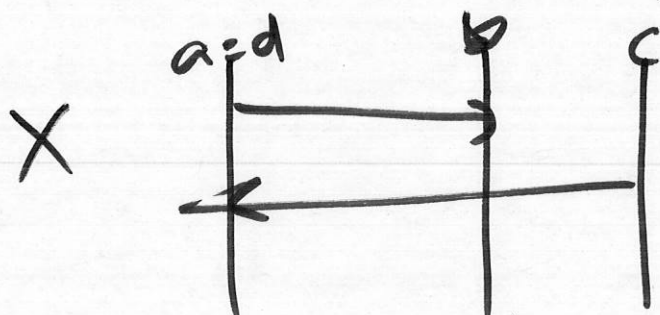
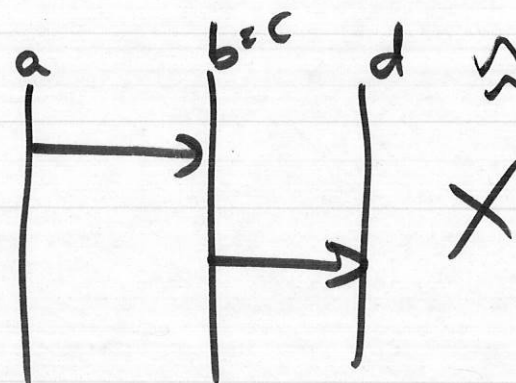
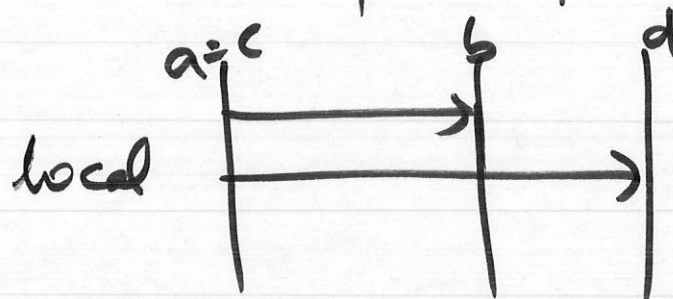
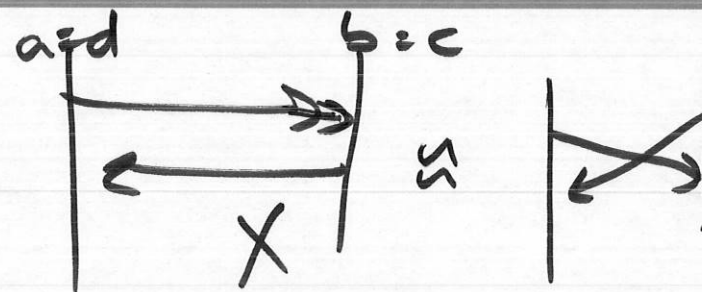
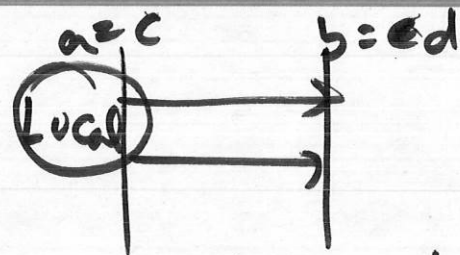




EXCLUSIVE OR $m_1 \oplus m_2$
(OCCURRENCE OF A MESSAGE)



EXCLUSIVE OR
 $m_1 \oplus m_2$



NONLOCAL CHOICE : BAD PATTERNS
 BAD MSC

INSERT ADDITIONAL
 MESSAGES

