Lecture 21 - Nov. 21

Bridge Controller

Proof Obligations of System Variant

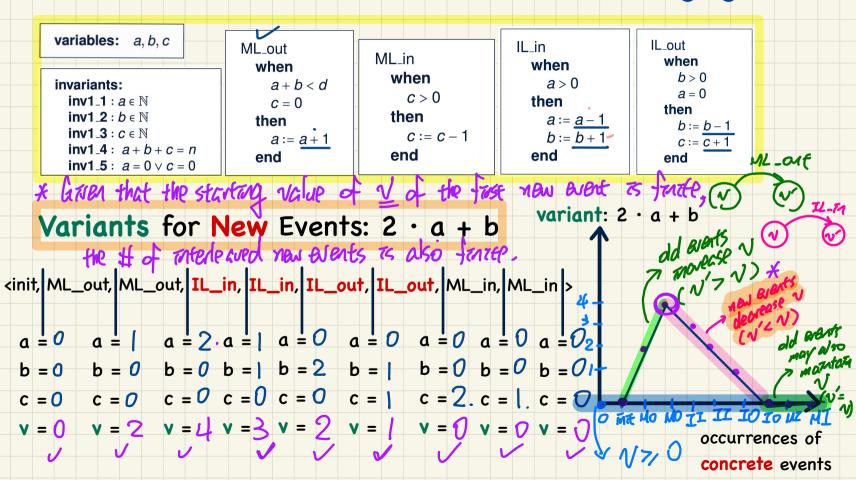
Announcements/Reminders

- Lab5 released (due on Tuesday, December 3)
- WrittenTest2 results to be released on Wednesday
- Exam review sessions polling
- Bonus Opportunity coming: Formal Course Evaluation

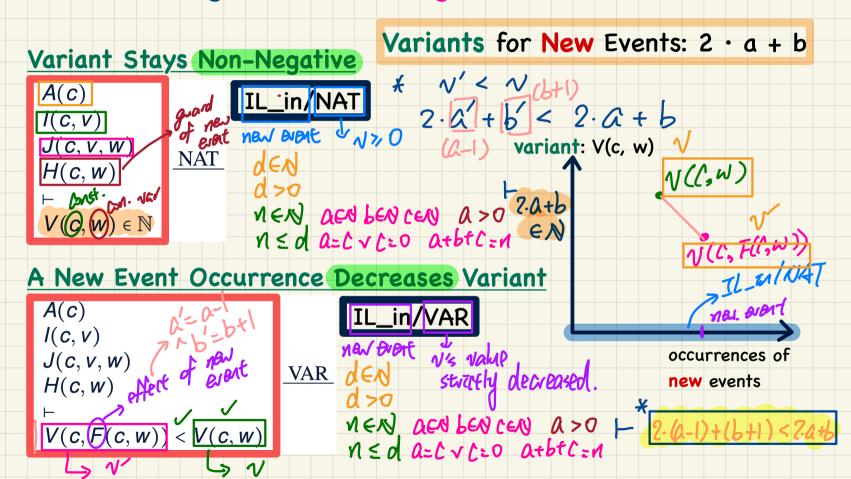
LiveLock/ Divergence

Lock/ Mutayon -> Carked by an infinite interleaving of <u>New Events</u> bisy boping <u>Dencrete model</u> in the abstact model \rightarrow variant $(\in \lambda)$ is \sim not the range of linelack of a model ~ just a <u>measure</u> on <u>if</u> tre lock is present in your model upwouble means the model trueldeks > 2 PDs & needs to be fried

Use of a Variant to Measure New Events Converging fixed



PO of Convergence/Non-Divergence/Livelock Freedom



Exercise Given variant: a+b

(1) Re-trace the value of v using the same trace (an plot the chagram). Can the same patterns be observed? (2) Formulate the NAR and NAT PDs.
(2 * 2 = 4 sequents
(3) Are they provable?

Example Inference Rules

