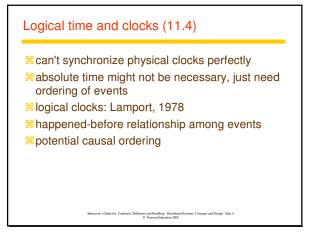
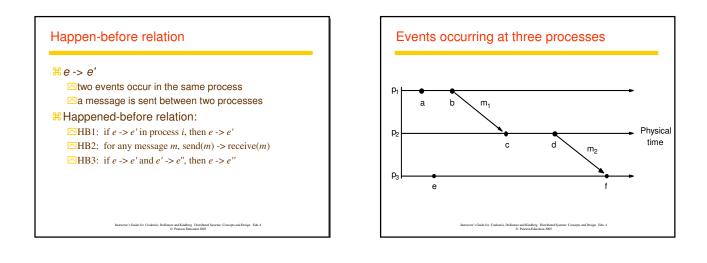
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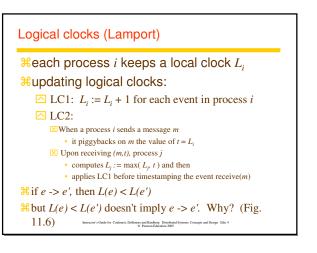


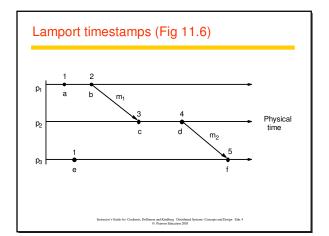
Happen-before vs. causality

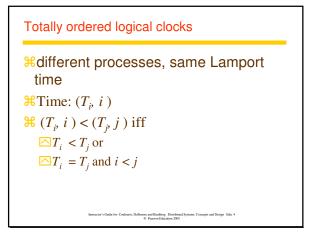
- ೫ e || e' if the two events aren't in a particular order (concurrent)
- #potential causality: e -> e' doesn't mean that e
 causes e'

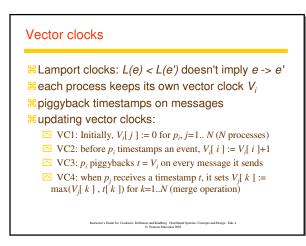
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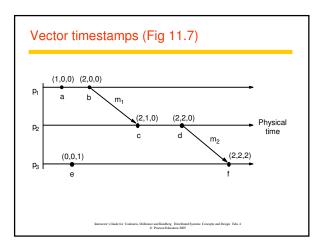
naturally, if e causes e', e -> e'

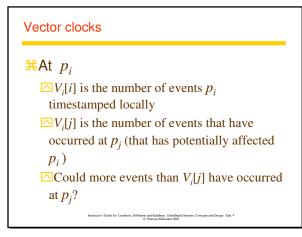














 $V[j] = V'[j], \ j = 1 ... N$ $V \le V' \text{ iff}$ $V[j] \le V'[j], \ j = 1 ... N$

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