# Virtual Time & Global States of Distributed Systems

- Asynchronous distributed systems consist of several processes without common memory which communicate (solely) via messages with unpredictable transmission delays
- # Global time & global state are hard to realize in distributed systems
  - Rate of event occurrence is very high
  - Event execution times are very small
- We can only approximate the global view
  - Simulate synchronous distributed system on a given asynchronous systems
  - Simulate a global time Logical Clocks
  - Simulate a global state Global Snapshots

# **Global States And Time In Distributed Systems**

**Marco Cascella** 

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