# Specification and Implementation of Replicated List

— The Jupiter Protocol Revisited

(Brief Announcement at PODC'2018)

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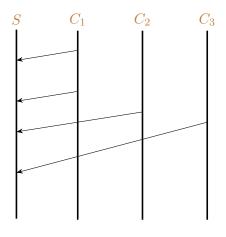
July 24, 2018

# **Jupiter**



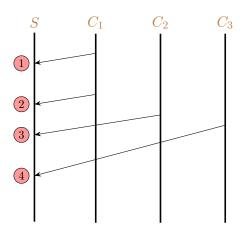
 $System\ model\ of\ Jupiter:$ 

client-server architecture



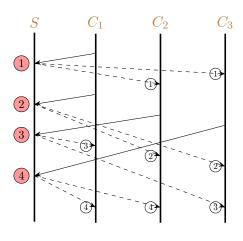
# System model of Jupiter:

- client-server architecture
- ightharpoonup client  $\stackrel{\mathsf{FIFO}}{-\!\!\!-\!\!\!-\!\!\!-\!\!\!-\!\!\!-\!\!\!-\!\!\!\!-}$  server



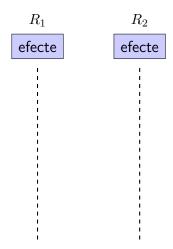
System model of Jupiter:

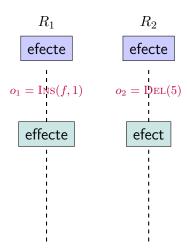
- client-server architecture
- ightharpoonup client  $\longrightarrow$  server
- totally ordered at the server

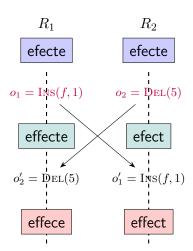


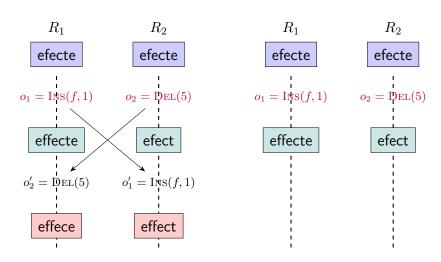
## System model of Jupiter:

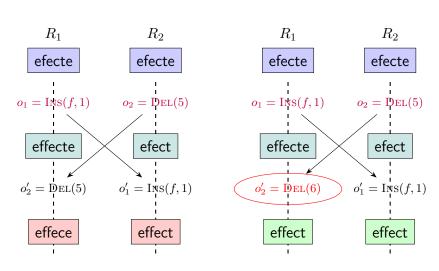
- client-server architecture
- ► client ———— server
- totally ordered at the server
- ▶ server FIFO → client



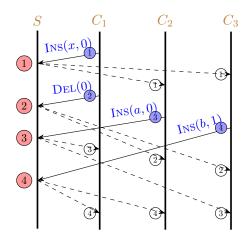


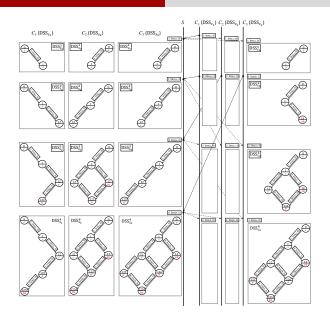






#### Jupiter: How and when to perform OTs?





# Thank You!



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6 / 6