

PoA

a consensus model with reputation at stake



who + how

sybil control

consensus

who



who

Proof of Work

Proof of Stake

Proof of Authority

who



governance



Proof of Authority

who

governance

Proof of Authority

who

Validators: Creating a Trusted Network

The first POA validators were selected at network inception. These trusted individuals met the following validator qualifications:

- United States resident over 18
- Notary public with a valid, verifiable license
- Participation in the test network
- Technical ability to run a node
- Forum participation and public biography

who

Validator Information

Validator Address: 0x6e349be21acb0db3b2092fd4e3b738202842697e



Full Name: **Marat Pekker**

Street Address: **2960 Withrow Pl**

City: **Santa Clara**

State: **CA**

Zip Code: **95051**

License: **2235772**

Expiration: **2022-03-25**

Validator Creation: **2018-03-29**

Blocks Validated

| Block | Time | Transactions | Reward |
|---------|------------|--------------|-------------|
| 3134054 | 40 seconds | 0 | Coming soon |
| 3134037 | 2 minutes | 0 | Coming soon |
| 3134020 | 3 minutes | 0 | Coming soon |
| 3134003 | 4 minutes | 0 | Coming soon |
| 3133986 | 6 minutes | 0 | Coming soon |
| 3133969 | 7 minutes | 0 | Coming soon |
| 3133952 | 9 minutes | 0 | Coming soon |
| 3133935 | 10 minutes | 0 | Coming soon |
| 3133918 | 12 minutes | 0 | Coming soon |
| 3133901 | 13 minutes | 0 | Coming soon |
| 3133884 | 14 minutes | 0 | Coming soon |
| 3133867 | 16 minutes | 0 | Coming soon |
| 3133850 | 17 minutes | 0 | Coming soon |
| 3133833 | 19 minutes | 0 | Coming soon |

how

1240

PROCEEDINGS OF THE IEEE, VOL. 66, NO. 10, OCTOBER 1978

SIFT: Design and Analysis of a Fault-Tolerant Computer for Aircraft Control

JOHN H. WENSLEY, LESLIE LAMPORT, JACK GOLDBERG, SENIOR MEMBER, IEEE,
MILTON W. GREEN, KARL N. LEVITT, P. M. MELLAR-SMITH, ROBERT E. SHOSTAK,
AND CHARLES B. WEINSTOCK

Byzantine General's Problem

making "a reliable distributed system from their unreliable parts"

how

Impossibility of Distributed Consensus with One Faulty Process

MICHAEL J. FISCHER

Yale University, New Haven, Connecticut

NANCY A. LYNCH

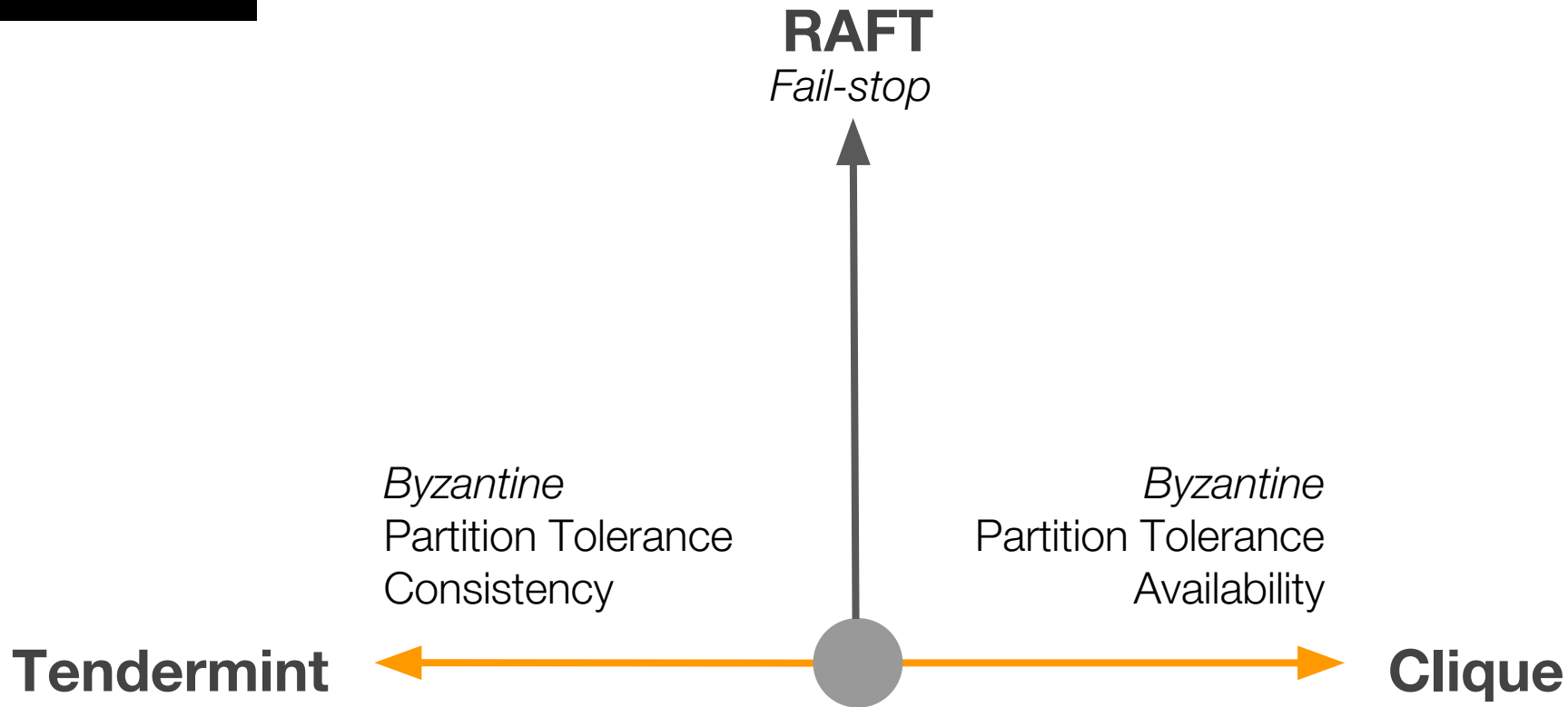
Massachusetts Institute of Technology, Cambridge, Massachusetts

AND

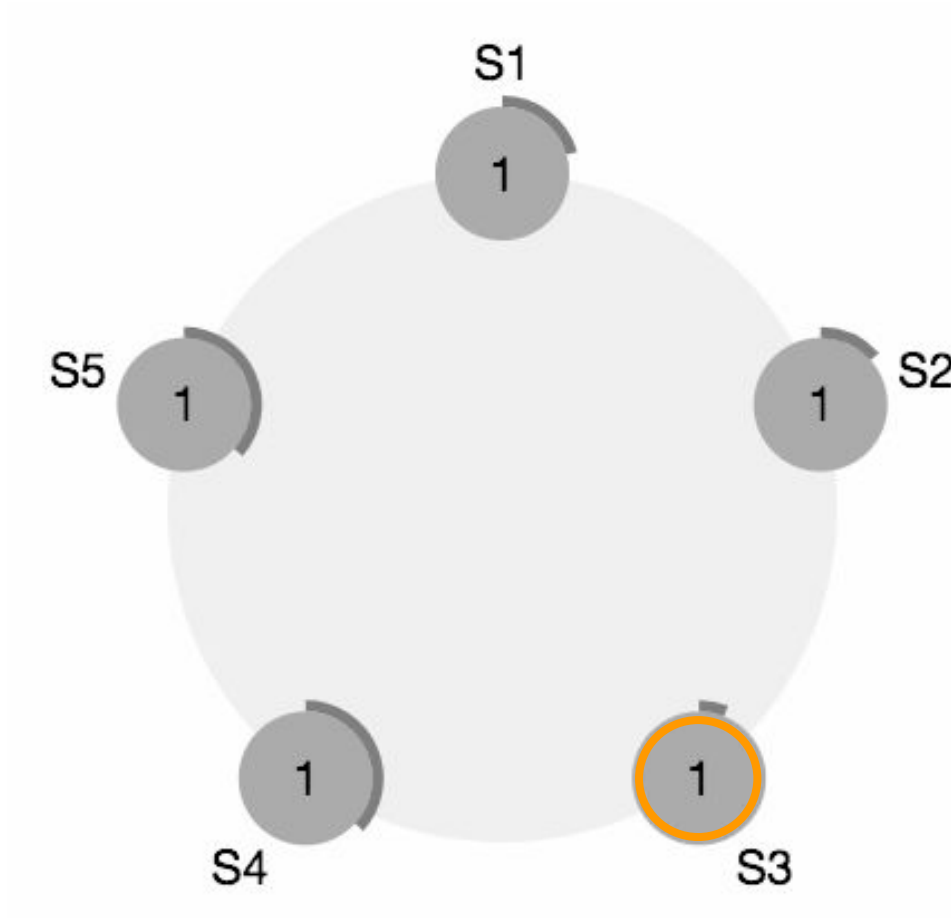
MICHAEL S. PATERSON

University of Warwick, Coventry, England

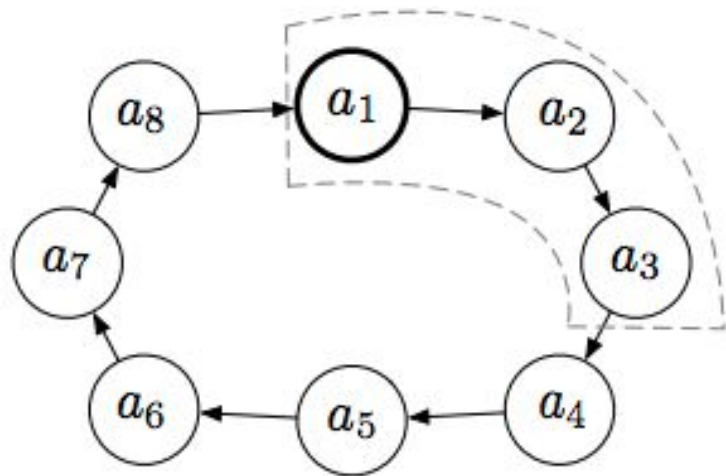
how



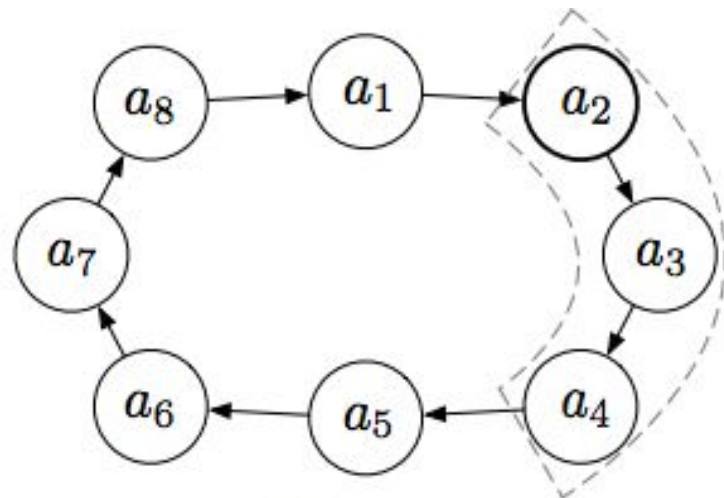
how



how

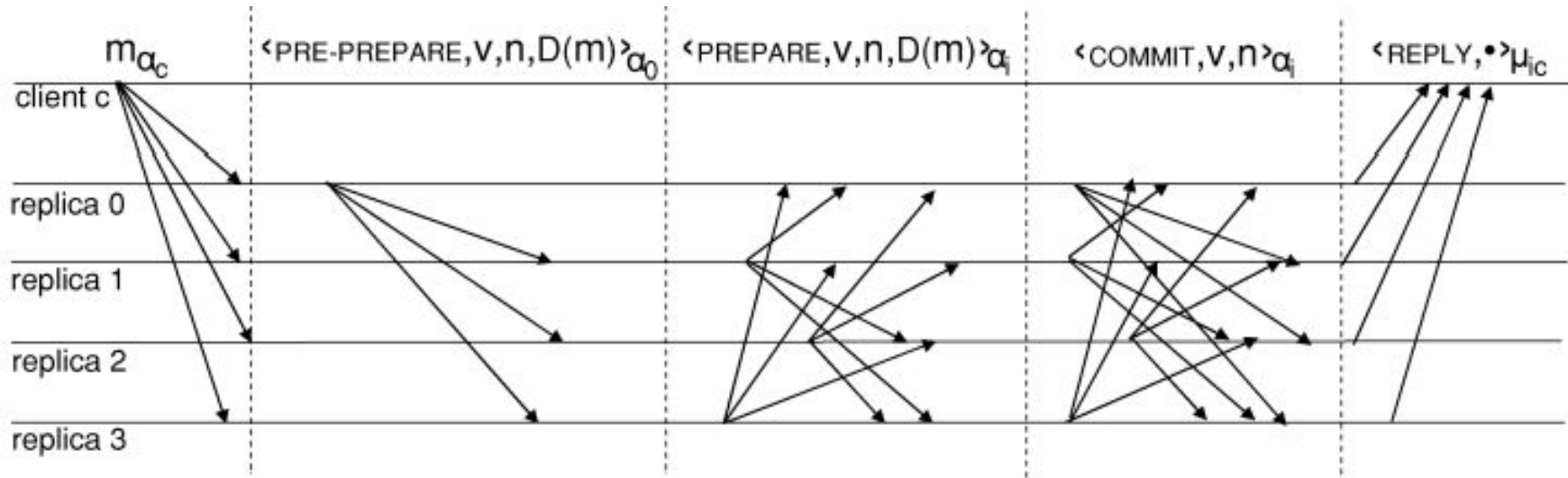


(a) Time t_1



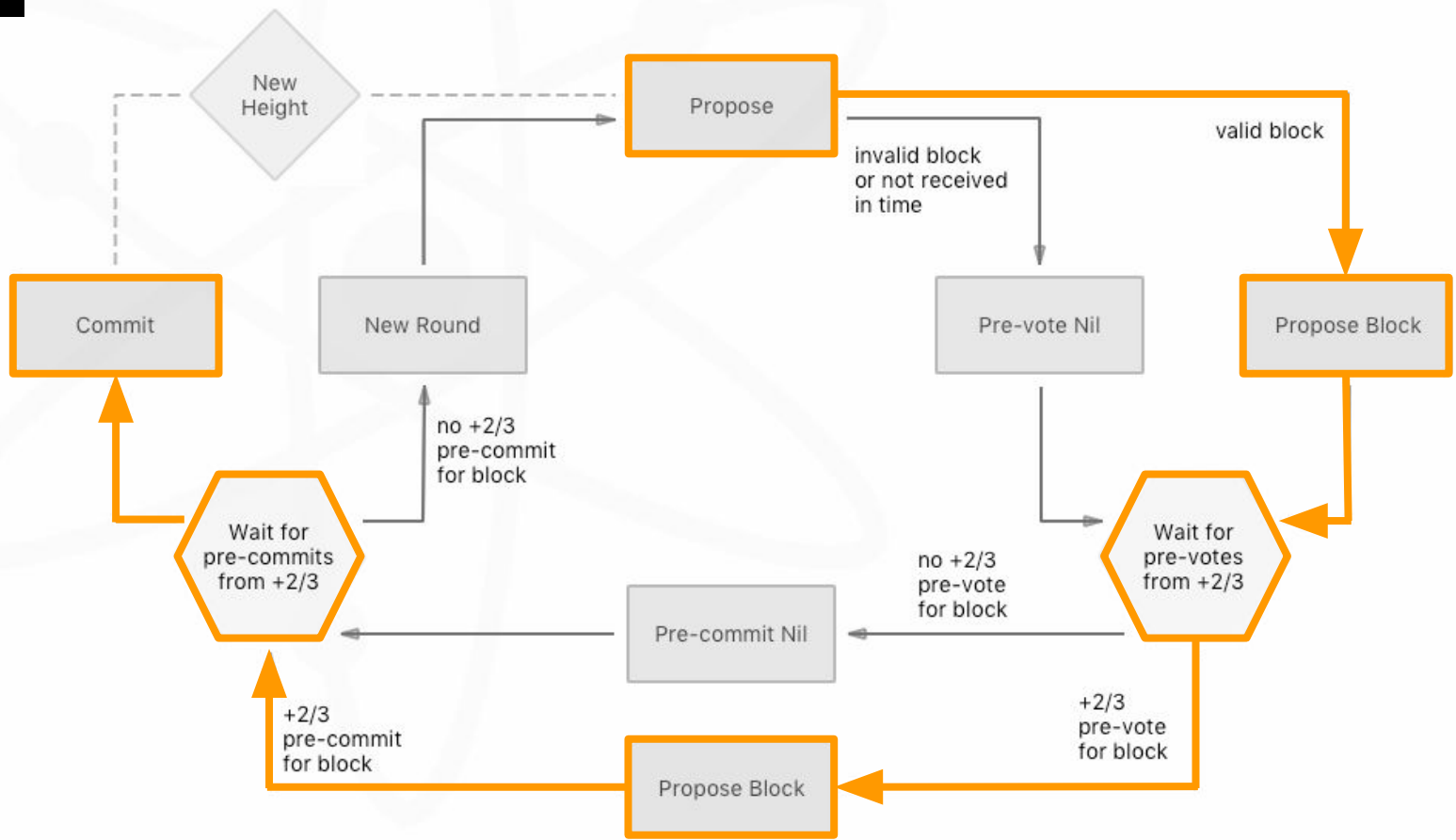
(b) Time t_2

how

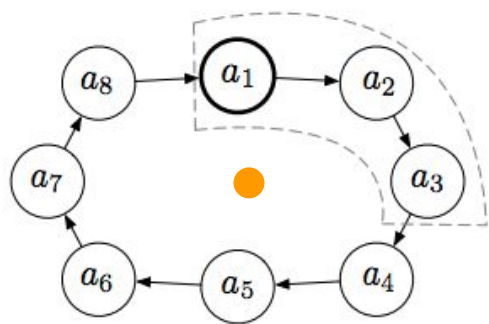
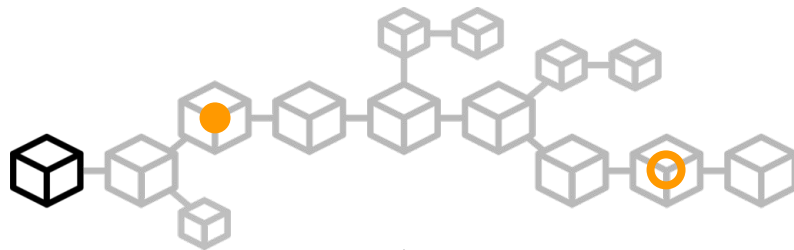


M. Castro and B. Liskov. Practical Byzantine Fault Tolerance and Proactive Recovery

how



val



adv

higher tx speed

precompiles

non-sticky

fixed tx cost (now)

