Errors found in distributed protocols

Protocol	Reference	Violation	Counter-example
Chord	[Sto+01; LBK02]	liveness ¹	[Zav12; Zav17]
Pastry	[RD01]	safety	[AMW16; AMW18]
Generalised Paxos	[Lam05]	$non-triviality^2$	[SS10]
FaB Paxos	[MA05; MA06]	liveness	[Abr+17]
$Multi-Paxos^3$	[CGR07]	safety	[Mic+17]
Zyzzyva	[Kot+07; Kot+10]	safety	[Abr+17]
CRAQ	[TF09]	$safety^4$	[Whi20]
JPaxos	$[Ko\acute{n}+11]$	safety	[Mic+17]
VR Revisited	[LC12]	safety	[Mic+17]
EPaxos	[MAK13]	safety	[Sut20]
Raft	[OO14]	$liveness^5$	[Hoc14]
Raft	[Ong14]	$safety^6$	[AZ15; Ong15]
Raft	[OO14; Ong14]	liveness	[HA20; JHM21]
DPaxos	[NAE18]	safety	[Whi+21]

(Reference list starts on the next page.)

 $^{^{1}\}mathrm{Eventual}$ reachability is Chord's key correctness property.

 $^{^2\}mathrm{Acceptors}$ might accept commands that have not been proposed.

³As described in Paxos Made Live.

 $^{^4{\}rm Client}$ reads might fail due to incorrect garbage collection.

 $^{^5\}mathrm{The}$ joint consensus membership change algorithm described in the paper version of Raft had a liveness bug, which was fixed in Ongaro's PhD thesis.

⁶The bug is in the single-server membership change scheme described in Ongaro's thesis.

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