表 1: Model checking results of verifying that TPaxos satisfies Consistency

TLC 模型 (参与者数量,提议值个数,投票轮数)	状态图直径	状态数	不同状态数	检验时间 (hh:mm:ss)
(2, 2, 2)	20	27809	7991	0:00:01
(2,2,3)	31	69954174	12107912	0:07:03
(2,4,2)	20	27945	7991	0:00:02
(2,4,3)	31	69966456	12107912	0:17:35
(3, 2, 2)	21	322114689	100000019	0:45:04
(3, 2, 3)	18	270946706	100000022	0:42:09
(3,4,2)	22	319890347	100000023	2:38:37
(3,4,3)	17	279673321	100000031	2:28:30

表 2: Model checking results of verifying that TPaxosAP satisfies Consistency

TLC 模型 (参与者数量, 提议值个数, 投票轮数)	状态图直径	状态数	不同状态数	检验时间 (hh:mm:ss)
(2, 2, 2)	20	27809	7991	0:00:01
(2, 2, 3)	31	69954296	12107912	0:06:52
(2,4,2)	20	27945	7991	0:00:02
(2,4,3)	31	69966578	12107912	0:18:20
(3, 2, 2)	21	329426700	100602814	0:44:04
(3, 2, 3)	19	274590666	101397482	0:42:03
(3,4,2)	21	323929358	100147908	2:40:06
(3,4,3)	17	278887421	100000024	2:28:05

表 3: Model checking results of verifying that TPaxos refines Voting.

TLC 模型 (参与者数量,提议值个数,投票轮数)	状态图直径	状态数	不同状态数	检验时间 (hh:mm:ss)
(2, 2, 2)	20	27809	7991	0:00:02
(2,2,3)	31	69954174	12107912	0:12:32
(2,4,2)	20	27945	7991	0:00:02
(2,4,3)	31	69966456	12107912	0:55:24
(3,2,2)	21	321158078	100000010	0:48:36
(3,2,3)	17	268108874	100000034	1:10:50
(3,4,2)	22	316078356	100000012	12:56:45
(3,4,3)	17	278338521	100000015	11:08:10

表 4: Model checking results of verifying that TPaxosAP refines EagerVoting.

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TLC 模型 (参与者数量, 提议值个数, 投票轮数)	状态图直径	状态数	不同状态数	检验时间 (hh:mm:ss)
(2, 2, 2)	20	27809	7991	0:00:01
(2,2,3)	31	69954296	12107912	0:15:42
(2, 4, 2)	20	27945	7991	0:00:03
(2,4,3)	31	69966578	12107912	0:59:24
(3, 2, 2)	22	315969776	100254890	2:09:05
(3, 2, 3)	17	267572227	100000032	2:11:25
(3, 4, 2)	22	318518236	100000012	13:13:31
(3,4,3)	17	278245333	100000036	11:31:35