Never Auction

Developed by **TON RED** team

Github: https://github.com/tonred/NeverAuction

DevNet Auction Root: 0:d37297b1eba504c3ec3c9d3c4fab7c3d4eb5152e39e380d727705c20fa8a2ff3

Viewer: https://never.ton.red

TG: @Abionics, @get_username

Key features

01 Really blind Vickrey auction

02 No mappings, infinity amount of bids and DeParticipants

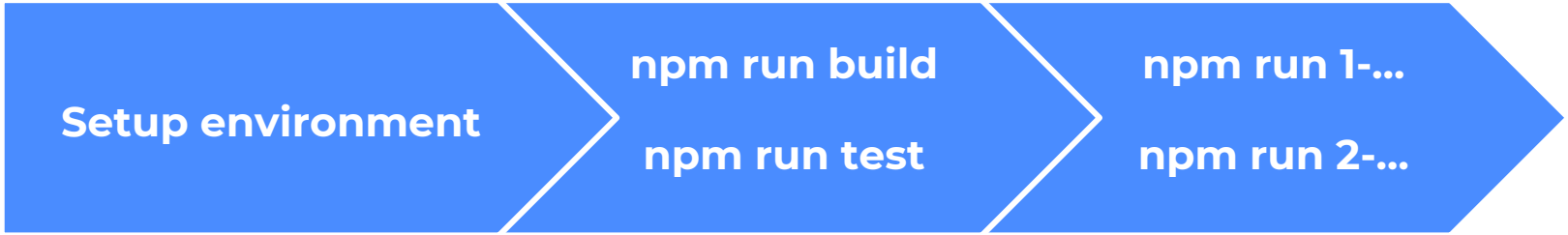
03 A lot of custom configurations

04 DeAuction for group bid with interesting concept

05 Well tested, **30** ts4 tests

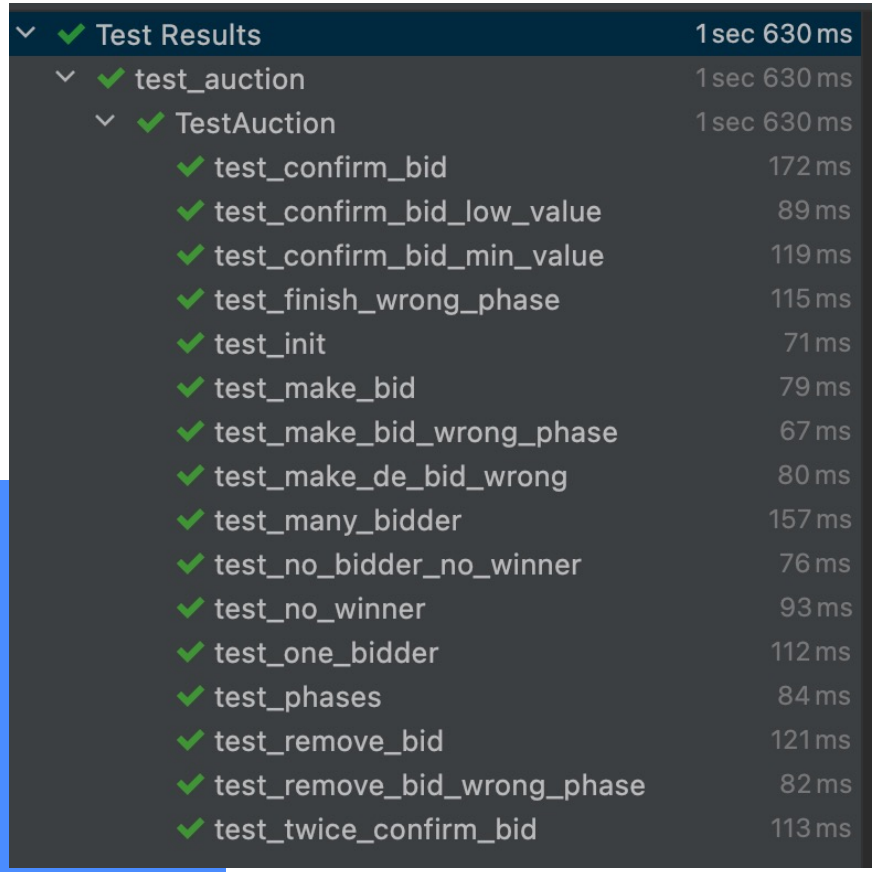
06 Browser viewer for auctions

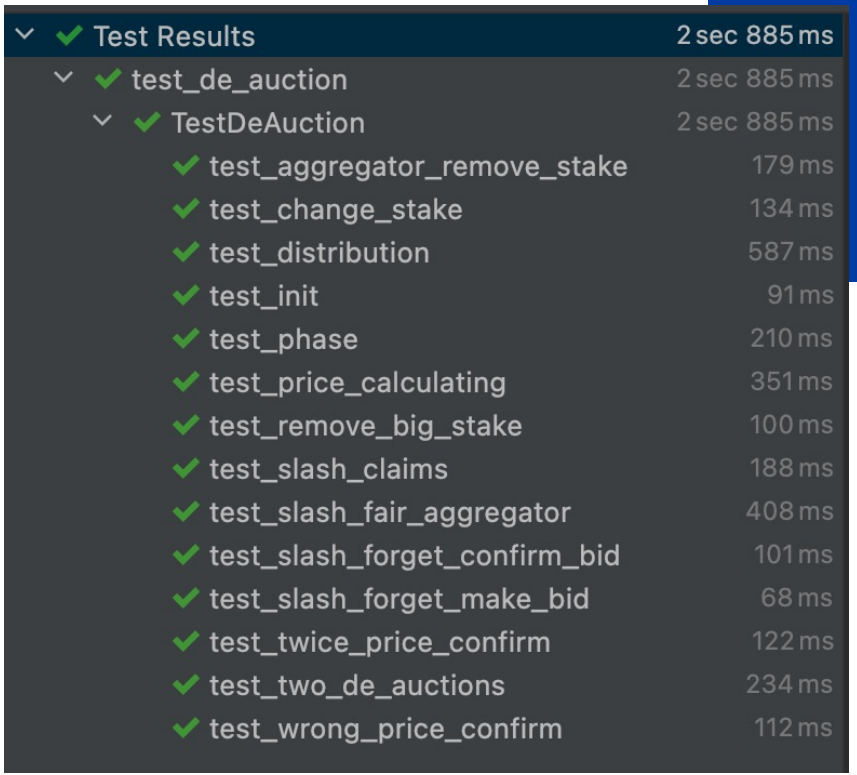
Usage steps



See full technical details in Github repository

Testing


Test Results 1 sec 630 ms
test_auction 1 sec 630 ms
TestAuction 1 sec 630 ms
test_confirm_bid 172 ms
test_confirm_bid_low_value 89 ms
test_confirm_bid_min_value 119 ms
test_finish_wrong_phase 115 ms
test_init 71 ms
test_make_bid 79 ms
test_make_bid_wrong_phase 67 ms
test_make_de_bid_wrong 80 ms
test_many_bidder 157 ms
test_no_bidder_no_winner 76 ms
test_no_winner 93 ms
test_one_bidder 112 ms
test_phases 84 ms
test_remove_bid 121 ms
test_remove_bid_wrong_phase 82 ms
test_twice_confirm_bid 113 ms


Test Results 2 sec 885 ms
test_de_auction 2 sec 885 ms
TestDeAuction 2 sec 885 ms
test_aggregator_remove_stake 179 ms
test_change_stake 134 ms
test_distribution 587 ms
test_init 91 ms
test_phase 210 ms
test_price_calculating 351 ms
test_remove_big_stake 100 ms
test_slash_claims 188 ms
test_slash_fair_aggregator 408 ms
test_slash_forget_confirm_bid 101 ms
test_slash_forget_make_bid 68 ms
test_twice_price_confirm 122 ms
test_two_de_auctions 234 ms
test_wrong_price_confirm 112 ms

Viewer

NEVER auction

Install wallet

NEVER Auction #3

Done

Quoting Price	0.345 EVER
Minimal lot size	5 EVER
Finish time	03:01:49, May 6th 2022
Confirm time	02:59:49, May 6th 2022
DeBid time	02:57:49, May 6th 2022
Fee	1 EVER
Deposit	2 EVER
Address	0:2ce54974d2560ece62fee130a8dacc21d24b9c7d1df3e667ee

Bids 2

Confirmed bids 2

DeAuctions 1

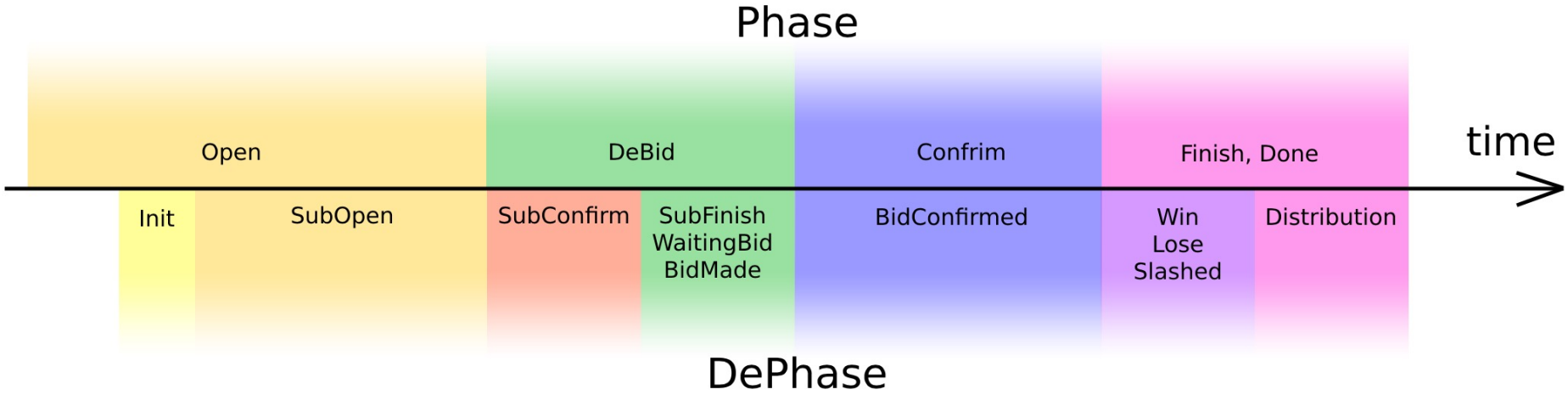
Show less

NEVER Auction #2

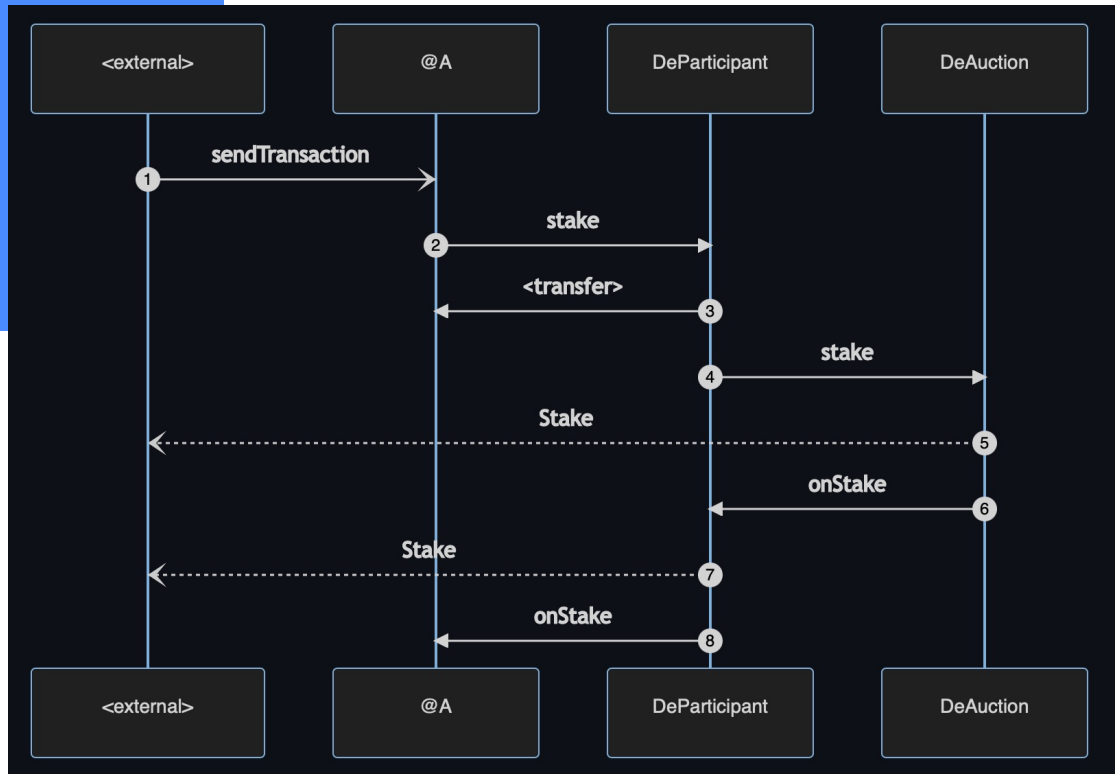
Done

Auction and DeAuction phases

Both Auction and DeAuction have specific phases. All technical details are described in Github repository. The relation between those phases are shown here



DeParticipant



DeParticipant is a user data for creation and interaction with DeAuction. It is deployed once for each wallet

The sample of such interaction (staking) is shown on diagram on left

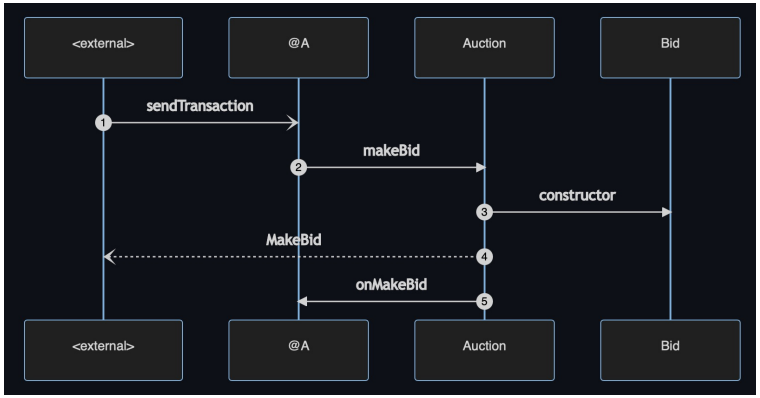
DeAuction price consencus

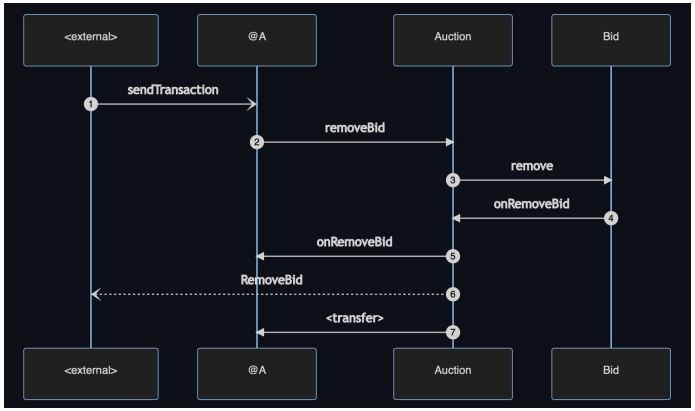
Consensus price are calculated as average between DeParticipant prices, where each price has weight of its owner's stake. Every DeParticipant can (but not must) provide a hash of desire price

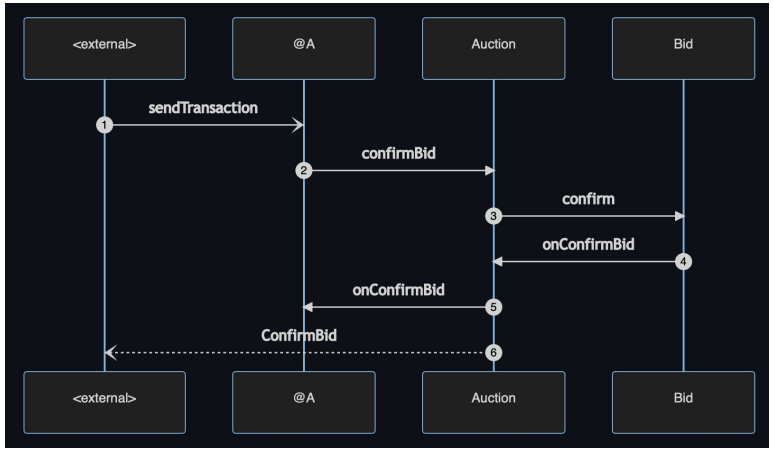
If someone doesn't provide a desire price, or forget to confirm, then his price is not included is final price calculation. But his stake is participating and such DeParticipant will get his reward in case of winning

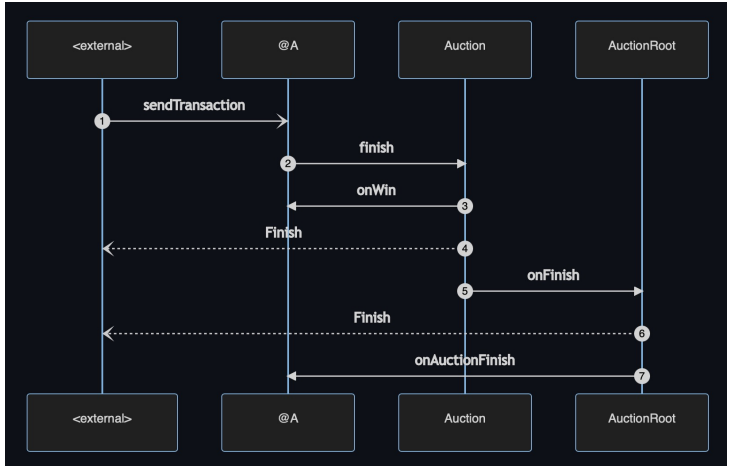
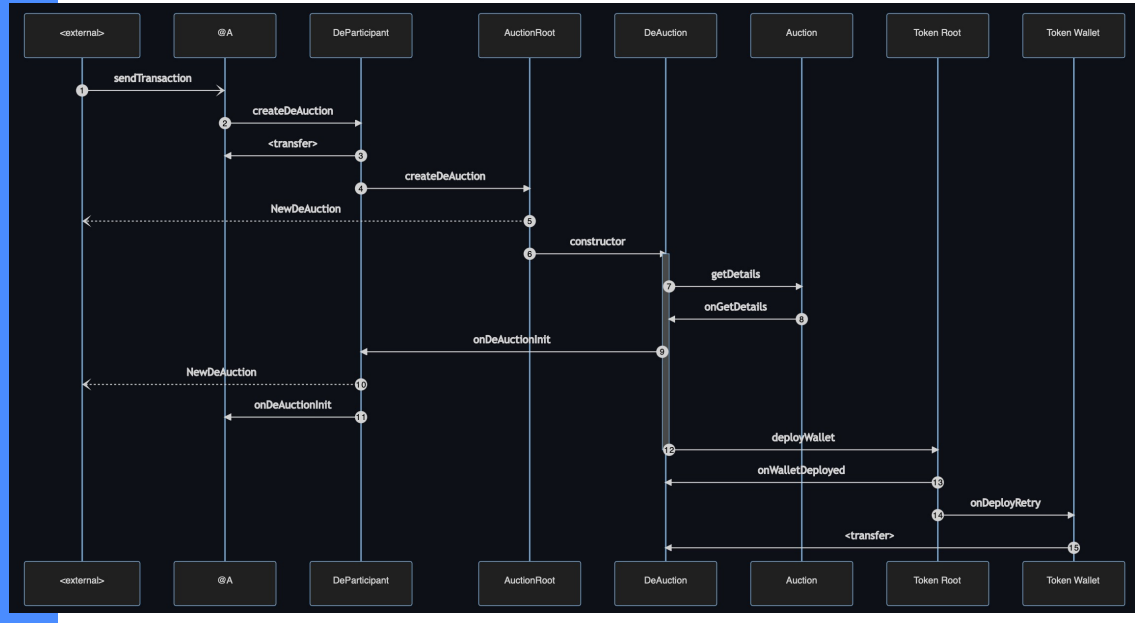
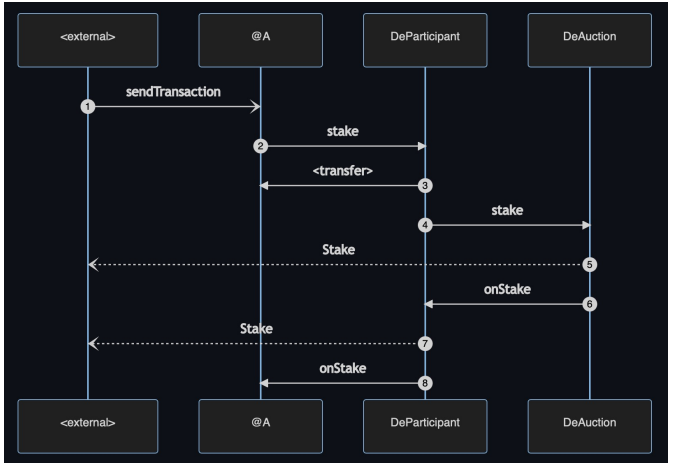
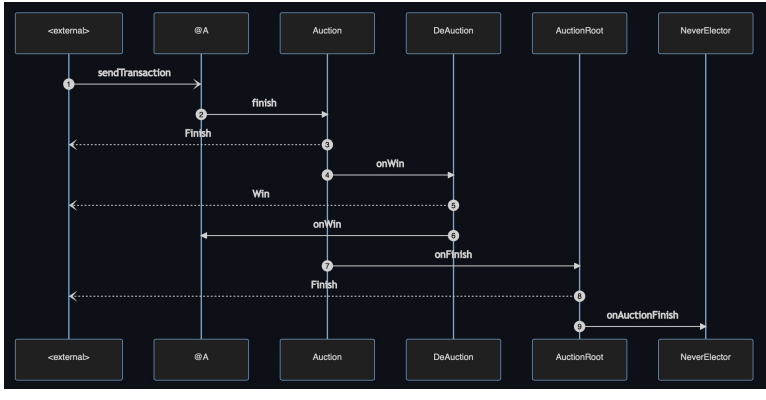
Consensus price formula: $$price_{consensus} = \frac{\sum_{p}^{participants} p_{stake} * p_{price}}{\sum_{p}^{participants} p_{stake}}$$

Auction diagrams









DeAuction diagrams