

OrderBlock contract

Full flow 1

- ✓ creating market with swapped base with quote fails
- ✓ places buy limit orders
- ✓ places sell limit orders
- ✓ places buy stop orders
- ✓ cancels first buy limit order
- ✓ reverts too big sell market order
- ✓ executes a sell market order
- ✓ places 50 sell limit orders and triggers a buy market order that executes these limit orders
- ✓ executes a buy market order and triggers 2 buy stop orders
- ✓ creates a new market with 6 decimals token

1) places buy limit orders

- ✓ places sell limit orders
- ✓ executes a buy market order
- ✓ takes out all the sell limit orders
- ✓ places another sell limit order

OrderBlock unit test

createMarket

- ✓ reverts when tokens are the same
- ✓ creates a market
- ✓ created market with the correct tokens
- ✓ incremented freeMarketId
- ✓ reverts when market already exists for tokens
- ✓ get market token addresses

createOrder - limit

- ✓ reverts for invalid marketId
- ✓ creates a limit order
- ✓ reverts when trying to create an order with invalid price
- ✓ contract received quote tokens
- ✓ created order object correctly
- ✓ set the nearest limit price

with insertAtIndex

- ✓ creates a limit order
- ✓ inserted the new order in correct position

ordering by time (same price)

- ✓ creates a limit order with same price as before
- ✓ the new one has less priority

cancelOrder

- ✓ cancels an order
- ✓ removed the order from the top of the list
- ✓ the creator received tokens back
- ✓ modified order object
- ✓ reverts when trying to cancel the same order again

createOrder - market order

market order is fillable by one limit order

- ✓ reverts for too big amount - not fillable
- ✓ creates a buy market order
- ✓ decreased limit order amount
- ✓ taker and maker received tokens

market order consumes 2 limit orders

- ✓ check current price
- ✓ creates a buy market order
- ✓ filled the first sell limit order
- ✓ removed filled order from the order list
- ✓ taker and maker(s) received tokens

createOrder - stop order

- ✓ reverts when trying to create an order with invalid price
- ✓ creates a stop order
- ✓ creates a stop order that will fail to execute
- ✓ created order object correctly

stop order execution

- ✓ market order triggers the stop order
- ✓ updated price
- ✓ executed stop order
- ✓ removed stop order from the order list
- ✓ stop order creator received base tokens
- ✓ decreased limit order amount
- ✓ the second stop order failed to execute, not fillable

PriorityList unit test

insert

- ✓ inserts first element
- ✓ inserts second element which has less priority

insertAt

- ✓ inserts an element between the first two

getFirst

- ✓ returns the first value and starting index

removeByIndex

- ✓ removes the first two elements

Solc version: 0.8.14		Optimizer enabled: true		Runs: 200	Block limit: 30000000 gas	
Methods						
Contract	Method	Min	Max	Avg	# calls	eur (avg)
ERC20Mock	approve	29157	46569	46074	43	-
ERC20Mock	transfer	51432	51456	51444	20	-
OrderBlock	cancelOrder	-	-	80145	2	-
OrderBlock	createMarket	5861775	5861787	5861785	7	-
OrderBlock	createOrder	151131	1709772	311509	88	-
PriorityListMock	insert	47426	60479	53953	2	-
PriorityListMock	insertAt	-	-	48236	1	-
PriorityListMock	removeByIndex	-	-	40444	1	-
Deployments					% of limit	
ERC20Mock	-	-	-	776053	2.6 %	-
OrderBlock	-	-	-	3710596	12.4 %	-
PriorityListMock	-	-	-	1043689	3.5 %	-
Utils	-	-	-	822760	2.7 %	-

61 passing (10s)

1 failing

1) OrderBlock contract

Full flow 1

places buy limit orders:

```

ReferenceError: tokenBalanceBefore is not defined
    at Context.<anonymous> (test/OrderBlock.functional.test.js:209:20)
    at runMicrotasks (<anonymous>)
    at processTicksAndRejections (node:internal/process/task_queues:96:5)
    at runNextTicks (node:internal/process/task_queues:65:3)
    at listOnTimeout (node:internal/timers:528:9)
    at processTimers (node:internal/timers:502:7)
    
```