CLAIMS

1. A securities trading simulation system which uses historical market information including the time of a securities trade, the securities trading simulation system comprising:

a market information simulator (20) configured to communicate with an algorithm processor (30) which performs algorithm processing based on an algorithm processing program previously created by a user, the algorithm processing including processing to call market information receiving processing when the historical market information is delivered, processing to order and determine the historical market information received by the market information receiving processing, processing to output order contents obtained by the order determination to the market information receiving processing, and processing to call order execution processing after the output of the order contents;

a market simulator (40) configured to communicate with the market information simulator and the algorithm processor;

a market information receiving program which causes the algorithm processor to perform market information receiving processing, the market information receiving processing including processing to receive the historical market information delivered from the market information simulator when called by the algorithm processing, ~~and~~ processing to write, to a first memory (32), order information in which a time in the historical market information is added to the output order contents, and processing to send, to the market simulator, an order determination completion report indicating the completion of an order determination when no order contents are obtained by the

order determination and no order contents are output from the algorithm processing; and

an order execution program which causes the algorithm processor to perform the order execution processing to send the order information in the first memory to the market information simulator when called by the algorithm processing,

the market simulator comprising

means (21) for delivering a simulation time faster than a real time to the market simulator,

historical market information writing means (22) for writing the historical market information including the same time as the simulation time to a second memory (23), and

means (24) for delivering the historical market information to the algorithm processor,

the market simulator comprising

market board information writing means (41) for creating market board information from the historical market information including the same time as the simulation time, and writing the market board information to a third memory (42), and

means (44) for determining, by agreement, the market board information and the order information, and sending obtained agreement information

the market simulator further comprising

means (44) for writing agreement information indicating a reached agreement to the third memory when the agreement determination indicates the reached agreement,

means (44) for sending agreement information in the third memory to the market information simulator in response to the sent order determination completion report, and

the historical market information writing means comprising

means for adding the same time as the simulation time to the historical market information,

means for determining whether the difference between the currently added time and the previously added time is less than or equal to a constant micro-time,

means for writing historical market information including the currently added time to the second memory when the difference is determined to be less than or equal to the constant micro-time,

means for waiting until the receipt of the agreement information when the difference is determined to be beyond the constant micro-time,

means for updating an indicative quantity included in the historical market information to subtract an agreed quantity indicated in the agreement information in response to the agreement information during the wait, and

means for writing the historical market information to the second memory after the update.

2. The securities trading simulation system according to claim 1, further comprising

a risk manager (50) configured to communicate with the market simulator,

the risk manager comprising

means (53) for calculating the profit-and-loss information in accordance with the sent agreement information, and

means (55) for displaying the profit-and-loss information.

3. The securities trading simulation system according to claim 2, wherein the profit-and-loss information is position profit-and-loss information.

4. The securities trading simulation system according to claim 1, further comprising

storage means (10) for previously storing the historical market information, the storage means (10) being readable from the market information simulator and the market simulator,

wherein the historical market information writing means (22) comprises

means for reading the historical market information including the same time as the simulation time from the storage means every simulation time to be delivered,

the market board information writing means (41) comprising

means for reading the historical market information including the same time as the simulation time from the storage means every simulation time which has been delivered, and

means for creating the market board information to include a time in the read historical market information every simulation time which has been delivered.

5. The securities trading simulation system according to claim 4, wherein

the market simulator comprises

means (43) for receiving the order information from the algorithm processor,

means (44) for reading, in accordance with a time included in the received order information, the market board information including a most recent time simultaneous with or later than the above time from the third memory,

means (44) for writing the order information to the third memory as unagreed order information when the determination by agreement of the received order information and the read market board information indicates an unreached agreement,

means (44) for reading, in accordance with the time included in the received order information, unagreed order information including a time earlier than the above time from the third memory, and

means (44) for deleting the unagreed order information from the third memory and writing agreement information indicating a reached agreement to the third memory when the determination by agreement of the read unagreed order information and the read market board information indicates the reached agreement.

6. The securities trading simulation system according to claim 1, wherein

the market simulator further comprises

means (43) for receiving the order information from the algorithm processor, and

means (43) for writing the received order information to the third memory.

7. The securities trading simulation system according to claim 1, wherein

the market information simulator further comprises

means (24) for delivering the simulation time to the algorithm processor, and

the algorithm processing further comprises processing to compare the delivered simulation time with a preset order time, and output preset order contents to the market information receiving processing when the delivered simulation time and the preset order time correspond to each other.

8. The securities trading simulation system according to claim 1, wherein the market simulator further comprises

means (43) for receiving the order information from the algorithm processor,

means (44) for reading, in accordance with a time included in the received order information, the market board information including a most recent time simultaneous with or later than the above time from the third memory,

means (44) for writing the order information to the third memory as unagreed order information when the determination by agreement of the received order information and the read market board information indicates an unreached agreement,

means (44) for reading, in accordance with the time included in the received order information, unagreed order information including a time earlier than the above time from the third memory, and

means (44) for deleting the unagreed order information from the third memory when the determination by agreement of the read unagreed order information and the read market board information indicates the reached agreement.

~~9. The securities trading simulation system according to claim 1, wherein the historical market information writing means comprises~~

~~means for adding the same time as the simulation time to the historical market information,~~

~~means for updating, after the addition, an indicative quantity included in the historical market information to subtract an agreed quantity indicated in the agreement information in response to the sent agreement information, and~~

~~means for writing the historical market information to the second memory after the update.~~

~~10. The securities trading simulation system according to claim 1, wherein~~

~~the market information receiving processing further comprises processing to send, to the market simulator, an order determination completion report indicating the completion of an order determination when no order contents are obtained by the order determination and no order contents are output from the algorithm processing,~~

~~the market simulator further comprises~~

~~means (44) for writing agreement information indicating a reached agreement to the third memory when the agreement determination indicates the reached agreement,~~

~~means (44) for sending agreement information in the third memory to the market information simulator in response to the sent order determination completion report, and~~

~~the historical market information writing means comprises~~

~~means for adding the same time as the simulation time to the historical market information,~~

~~means for determining whether the difference between the currently added time and the previously added time is less than or equal to a constant micro-time,~~

~~means for writing historical market information including the currently added time to the second memory when the difference is determined to be less than or equal to the constant micro-time,~~

~~means for waiting until the receipt of the agreement information when the difference is determined to be beyond the constant micro-time,~~

~~means for updating an indicative quantity included in the historical market information to subtract an agreed quantity indicated in the agreement information in response to the agreement information during the wait, and~~

~~means for writing the historical market information to the second memory after the update.~~