

FUTU - Held NMS Stocks and Options Order Routing Public Report

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4th Quarter, 2022

October 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	1.78	0.28	0.41	97.53

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	43.58	56.68	57.93	55.24	43.25	1,603.04	9.9647	10,179.63	9.9988	48,865.65	28.9818	11,200.57	12.7055
Virtu Americas, LLC	23.65	30.27	30.25	31.86	23.47	871.44	10.0000	5,889.76	10.0000	25,439.28	29.8234	7,599.56	15.5899
Virtu Agency	18.18	1.83	0.05	0.00	18.61	-4.91	-5.0000	-442.03	-5.0000	-1,177.00	-5.0000	-0.44	-5.0000
Dash/IMC Financial Markets	8.35	6.21	6.73	5.88	8.40	-157.88	-19.1668	-8.01	-30.2729	0.00	0.0000	-517.35	-16.7897
Speedroute, LLC	6.25	5.00	5.05	7.02	6.27	144.59	10.0000	8.31	10.0000	27.18	29.2447	4,876.16	16.8067

Material Aspects:

CITADEL SECURITIES LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to CDRG. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share. Orders that are entered starting at 4 AM ET through 7 AM ET are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

Virtu Americas, LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to NITE. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share.

Virtu Agency:

Futu Clearing Inc. routes orders to VALR to which orders are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

Dash/IMC Financial Markets:

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Speedroute, LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to SPDR. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share.

October 2022

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	2.09	0.46	0.47	96.98

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	43.76	55.28	49.58	55.13	43.43	23,737.10	9.0882	121,467.08	8.3461	406,927.10	23.6158	35,984.81	5.8456
Virtu Americas, LLC	24.28	30.60	31.20	29.18	24.09	13,119.87	9.0577	73,645.29	8.2687	209,837.74	25.1381	30,962.63	9.1035
Virtu Agency	15.80	1.74	0.00	0.23	16.25	-33.71	-5.0000	-12,600.00	-5.0000	-13,603.60	-5.0000	-9.27	-5.0000
Dash/IMC Financial Markets	8.66	6.32	7.00	6.92	8.73	-1,498.69	-11.4826	-40.97	-3.3821	0.00	0.0000	-4,253.13	-7.8045
Speedroute, LLC	7.50	6.05	12.22	8.54	7.50	2,256.57	9.0508	987.47	9.2391	534.84	25.2390	54,206.12	11.3309

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October 2022

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	1.11	9.93	88.96	0.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	48.05	48.17	48.00	48.05	0.00	57,708.00	50.2740	828,998.60	49.2447	640,613.40	42.0022	0.00	0.0000
Global Execution Brokers, LP	47.92	47.84	48.02	47.91	0.00	54,091.80	46.1570	662,936.20	47.1465	748,380.10	41.6470	3.20	40.0000
Dash/IMC Financial Markets	4.03	3.98	3.98	4.04	0.00	5,803.00	50.2511	61,510.30	51.2795	63,705.20	41.8763	1.60	40.0000

Material Aspects:

CITADEL SECURITIES LLC:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to CDRG. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.

Global Execution Brokers, LP:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to DFIN. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.

Dash/IMC Financial Markets:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to GEBB. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.

November 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	2.37	0.27	0.71	96.66

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	48.79	63.09	64.09	64.41	48.28	2,306.98	9.9641	9,705.21	9.9956	54,401.90	29.2296	11,266.63	12.1708
Virtu Americas, LLC	22.59	29.63	30.81	31.13	22.33	1,169.98	10.0000	4,790.10	10.0000	24,505.05	29.8547	6,649.08	15.1779
Virtu Agency	21.34	1.99	0.00	0.01	22.03	-2.44	-3.5120	-478.30	-5.0000	-1,410.43	-5.0000	0.00	0.0000
Dash/IMC Financial Markets	5.82	4.19	4.04	3.52	5.88	-128.47	-21.9518	-5.91	-28.0851	0.00	0.0000	-360.80	-17.9024
Speedroute, LLC	1.47	1.10	1.06	0.92	1.48	39.67	10.0000	1.11	10.0000	1.16	25.1948	1,075.70	16.1750

Material Aspects:

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Virtu Americas, LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to NITE. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share.

Virtu Agency:

Futu Clearing Inc. routes orders to VALR to which orders are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

Dash/IMC Financial Markets:

Futu Clearing Inc. routes orders to DFIN to which orders are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

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November 2022

Non-S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	2.48	0.37	0.78	96.37

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	48.74	62.44	64.38	65.06	48.19	31,964.41	8.4783	211,085.17	8.3338	562,888.37	22.1546	66,074.19	5.8104
Virtu Americas, LLC	23.08	28.82	29.81	29.04	22.86	14,675.14	8.6371	108,640.92	8.3430	243,057.71	24.0533	51,261.62	9.3642
Virtu Agency	19.16	3.11	0.01	0.06	19.80	-96.06	-5.0000	-20,549.17	-5.0000	-27,211.50	-5.0000	-19.66	-5.0000
Dash/IMC Financial Markets	6.60	4.24	4.38	4.52	6.69	-2,025.31	-14.0145	-81.49	-2.4046	0.00	0.0000	-4,265.31	-7.6130
Speedroute, LLC	2.43	1.38	1.41	1.32	2.47	633.02	9.1392	105.94	7.9353	300.27	27.7983	18,701.97	12.2788

Material Aspects:

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November 2022

Options

Summary

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100.00	1.09	9.97	88.94	0.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Global Execution Brokers, LP	51.48	52.13	51.74	51.44	0.00	47,616.60	45.7557	818,957.70	47.1992	846,839.90	42.3655	34.00	40.0000
CITADEL SECURITIES LLC	41.48	40.99	41.20	41.51	0.00	41,740.00	50.5021	827,294.80	49.7480	626,427.70	42.5817	0.00	0.0000
Dash/IMC Financial Markets	7.05	6.88	7.06	7.05	0.00	8,825.50	50.8469	130,235.10	51.7502	124,756.30	42.9287	8.40	40.0000

Material Aspects:

Global Execution Brokers, LP:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to DFIN. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.

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December 2022

S&P 500 Stocks

Summary

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100.00	2.30	0.57	0.71	96.43

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	58.71	64.18	64.42	64.19	58.51	3,156.26	9.9775	11,109.52	10.4351	57,163.63	29.3387	11,808.47	9.8504
Virtu Americas, LLC	22.18	29.68	30.30	30.29	21.89	1,466.36	10.0000	5,548.48	10.0000	25,715.14	29.9049	5,945.39	13.6079
Virtu Agency	13.19	1.23	0.16	0.15	13.64	-2.05	-5.0000	-324.61	-5.0000	-821.42	-5.0000	-0.17	-5.0000

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Dash/IMC Financial Markets	4.68	3.84	4.15	4.15	4.71	-242.43	-26.5088	-7.98	-26.5989	0.00	0.0000	-340.00	-15.9686
Speedroute, LLC	1.23	1.06	0.97	1.22	1.24	57.18	10.0000	2.26	10.0000	1.65	29.2895	1,075.64	16.7362
Trade.Com Online Securities, Inc.	0.01	0.00	0.00	0.00	0.01	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

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Summary

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100.00	2.46	0.41	1.07	96.06

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
CITADEL SECURITIES LLC	56.15	62.60	63.28	63.99	55.86	28,852.75	7.1762	201,221.76	7.7257	549,146.93	20.7693	31,473.68	2.1162

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Virtu Americas, LLC	22.60	28.60	29.59	28.83	22.34	13,390.18	7.4363	98,647.15	7.7463	231,537.27	22.3939	37,075.49	6.9198
Virtu Agency	12.51	2.20	0.36	0.45	12.96	-199.59	-5.0000	-13,702.70	-5.0000	-16,642.46	-5.0000	-11.15	-5.0000
Dash/IMC Financial Markets	7.14	5.41	5.71	5.64	7.21	-1,269.59	-8.0572	-59.07	-2.6385	0.00	0.0000	-6,476.39	-7.9789
Speedroute, LLC	1.60	1.19	1.05	1.08	1.62	460.85	9.4838	79.15	8.9934	197.98	26.0306	13,802.75	11.1010
Trade.Com Online Securities, Inc.	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

CITADEL SECURITIES LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to CDRG. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share. Orders that are entered starting at 4 AM ET through 7 AM ET are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

Virtu Americas, LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to NITE. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share.

Virtu Agency:

Futu Clearing Inc. routes orders to VALR to which orders are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

Dash/IMC Financial Markets:

Futu Clearing Inc. routes orders to DFIN to which orders are executed leveraging executing venues sweep and algorithmic order routing strategies. Futu Clearing Inc pays exchange, regulatory, market data, and clearing fees and receives exchange rebates as credits where applicable. Futu Clearing Inc may also receive incremental pricing benefits if certain volume thresholds are met as part of a cost/plus model with the base commission being \$0.0005 per share.

Speedroute, LLC:

Futu Clearing, Inc. receives payment for routing listed equity order flow to SPDR. For marketable orders the payment rate is \$0.001 per share, for non-marketable orders the rate is \$0.003 per share, and for extended hours orders the rate is \$0.0002 per share.

December 2022

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
100.00	1.11	10.46	88.43	0.00

Venues

Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
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Venue - Non-directed Order Flow	Non-Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non-Marketable Limit Orders (%)	Other Orders (%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	Net Payment Paid/Received for Marketable Limit Orders(USD)	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cents per hundred shares)
Global Execution Brokers, LP	53.82	54.02	53.95	53.81	0.00	50,072.00	46.5353	781,146.30	47.5231	821,200.00	42.0460	8.40	40.0000
CITADEL SECURITIES LLC	40.21	39.76	40.01	40.24	0.00	49,366.00	51.0496	773,876.70	49.7670	564,594.40	42.2322	0.00	0.0000
Dash/IMC Financial Markets	5.97	6.22	6.04	5.96	0.00	9,532.00	50.3220	103,475.60	52.1645	101,162.45	42.2630	4.00	40.0000

Material Aspects:

Global Execution Brokers, LP:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to DFIN. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.

CITADEL SECURITIES LLC:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to CDRG. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.

Dash/IMC Financial Markets:

Futu Clearing, Inc. receives payment for routing multi-listed option order flow to GEBB. For complex orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other complex orders the payment rate is \$0.90 per contract. For marketable orders on classes in the penny interval program the payment rate is \$0.50 per contract, and for all other marketable orders the payment rate is \$1.00 per contract. For non-marketable orders on classes in the penny interval program the payment rate is \$0.40 per contract, and for all other nonmarketable orders the payment rate is \$0.90 per contract.