

HSBC Securities - Held NMS Stocks and Options Order Routing Public Report

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3rd Quarter, 2022

July 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	9.22	12.16	62.08	16.53

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)
Instinet, LLC	82.76	99.20	65.32	93.73	45.24	-1,877.57	-10.0000	-1,139.62	-10.0000	-2,396.98	-10.0000	-20,558.47	-10.0000
BBG_PRIMEX	8.97	0.00	0.00	0.00	54.23	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Nasdaq Stock Exchange (INET)	4.25	0.29	20.34	2.81	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	0.87	0.51	0.99	1.14	0.00	-3.36	-10.0000	-7.19	-18.9739	-55.69	-28.8325	0.00	0.0000
UBS Securities, LLC ATS	0.65	0.00	5.19	0.03	0.00	0.00	0.0000	-9.14	-10.0000	-0.26	-10.0000	0.00	0.0000
CBOE BZX Exchange	0.47	0.00	0.24	0.71	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE Arca, Inc.	0.43	0.00	0.24	0.65	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities	0.36	0.00	2.64	0.06	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Cboe EDGX Exchange, Inc.	0.32	0.00	0.30	0.46	0.00	0.00	0.0000	-0.30	-30.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC	0.26	0.00	0.10	0.39	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Instinet, LLC:

No material aspects related to this relationship

Nasdaq Stock Exchange (INET):

No material aspects related to this relationship

NEW YORK STOCK EXCHANGE, INC.:
No material aspects related to this relationship

UBS Securities, LLC ATS:
No material aspects related to this relationship

CBOE BZX Exchange:
No material aspects related to this relationship

NYSE Arca, Inc.:
No material aspects related to this relationship

Citadel Securities:
No material aspects related to this relationship

Cboe EDGX Exchange, Inc.:
No material aspects related to this relationship

NYSE MKT LLC:
No material aspects related to this relationship

July 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	7.15	26.94	55.74	10.17

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)
Instinet, LLC	59.43	99.02	27.43	70.58	55.23	-13,727.28	-10.0000	-19,410.71	-10.0000	-19,010.38	-10.0000	-20,241.35	-10.0000
Nasdaq Stock Exchange (INET)	16.93	0.28	46.05	7.43	3.52	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC ATS	4.00	0.00	11.78	0.54	5.12	0.00	0.0000	-40.45	-10.0000	-4.09	-10.0000	-19.21	-10.0000
BBG_PRIMEX	3.14	0.00	0.00	0.00	30.84	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	3.07	0.28	1.18	4.81	0.48	-3.42	-10.0000	-148.18	-14.0392	-331.51	-26.7696	-9.26	-30.0000
NYSE Arca, Inc.	2.75	0.00	0.98	4.46	0.02	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BZX Exchange	2.38	0.00	0.64	3.96	0.02	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

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)
Cboe EDGX Exchange, Inc.	2.26	0.00	0.53	3.80	0.02	0.00	0.0000	-2.27	-10.4889	-57.64	-30.0000	-0.25	-30.0000
Citadel Securities	2.11	0.00	5.83	0.37	3.30	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC	2.05	0.28	0.46	3.43	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Instinet, LLC:
No material aspects related to this relationship

Nasdaq Stock Exchange (INET):
No material aspects related to this relationship

UBS Securities, LLC ATS:
No material aspects related to this relationship

NEW YORK STOCK EXCHANGE, INC.:
No material aspects related to this relationship

NYSE Arca, Inc.:
No material aspects related to this relationship

CBOE BZX Exchange:
No material aspects related to this relationship

Cboe EDGX Exchange, Inc.:
No material aspects related to this relationship

Citadel Securities:
No material aspects related to this relationship

NYSE MKT LLC:
No material aspects related to this relationship

July 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	0.00	10.47	66.03	23.50

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)
Cboe Exchange, Inc.	35.05	0.00	26.19	42.01	19.43	0.00	0.0000	-302.60	-0.5688	-331.55	-0.3815	-990.36	-0.3023
CBOE EDGX OPTIONS EXCHANGE	14.53	0.00	11.90	15.35	13.43	0.00	0.0000	112.93	0.4122	176.34	0.1283	78.38	0.5191
NYSE ARCA OPTIONS	14.20	0.00	0.79	17.23	11.66	0.00	0.0000	-45.57	-0.4900	315.93	0.5504	38.31	0.5894
Cboe C2 Exchange, Inc.	10.71	0.00	0.00	11.45	13.43	0.00	0.0000	0.00	0.0000	54.60	0.3616	-112.70	-0.1378
Nyse Chicago, Inc.	4.32	0.00	4.76	0.50	14.84	0.00	0.0000	5.17	0.0975	0.00	0.0000	0.00	0.0000
INTERNATIONAL SECURITIES EXCHANGE, LLC	4.24	0.00	7.94	0.00	14.49	0.00	0.0000	1.34	0.0744	0.00	0.0000	20.40	0.3000
ISE MERCURY, LLC	3.82	0.00	35.71	0.13	0.00	0.00	0.0000	322.90	0.4626	1.74	0.2900	0.00	0.0000
NASDAQ OPTIONS MARKET	3.82	0.00	4.76	5.03	0.00	0.00	0.0000	-85.01	-0.4858	165.70	0.2748	0.00	0.0000
CBOE BZX Exchange	3.49	0.00	1.59	5.03	0.00	0.00	0.0000	-76.50	-0.5000	679.42	0.4027	0.00	0.0000
MIAX EMERALD, LLC	3.41	0.00	1.59	0.38	12.72	0.00	0.0000	23.38	0.4871	5.83	0.5300	22.15	0.3034

Material Aspects:

Cboe Exchange, Inc.:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

CBOE EDGX OPTIONS EXCHANGE:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

NYSE ARCA OPTIONS:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

Cboe C2 Exchange, Inc.:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

Nyse Chicago, Inc.:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

INTERNATIONAL SECURITIES EXCHANGE, LLC:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

ISE MERCURY, LLC:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

NASDAQ OPTIONS MARKET:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

CBOE BZX Exchange:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

MIAX EMERALD, LLC:

HSBC Securities (USA) Inc. ("HSBC") utilizes Interactive Brokers, LLC as its executing broker for listed options. Interactive Brokers, LLC determines all routing decisions and HSBC does not receive direct compensation for directing order flow to Interactive Brokers, LLC. However, HSBC may accept certain payments in the form of rebates that Interactive Brokers, LLC may receive from accessing certain exchange venues, which are then passed back to HSBC.

August 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	4.57	34.08	52.42	8.93

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)
Nasdaq Stock Exchange (INET)	43.82	22.28	66.47	38.43	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	19.86	72.49	4.10	28.89	0.00	-549.90	-10.0000	-120.46	-13.5324	-823.02	-26.7665	0.00	0.0000
Instinet, LLC	9.56	5.23	1.30	7.10	57.70	-30.54	-10.0000	-66.55	-10.0000	-164.19	-10.0000	-12,702.72	-10.0000
NYSE Arca, Inc.	4.33	0.00	0.85	7.70	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
BBG_PRIMEX	3.77	0.00	0.00	0.00	42.20	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BZX Exchange	3.74	0.00	1.31	6.29	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC ATS	3.11	0.00	8.37	0.49	0.00	0.00	0.0000	-72.36	-10.0000	-3.56	-10.0000	0.00	0.0000
Cboe EDGX Exchange, Inc.	2.95	0.00	0.98	4.99	0.00	0.00	0.0000	-8.68	-27.0698	-1.85	-14.8875	0.00	0.0000
NYSE MKT LLC	2.07	0.00	0.33	3.74	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Citadel Securities	1.46	0.00	3.50	0.52	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Nasdaq Stock Exchange (INET):
No material aspects related to this relationship

NEW YORK STOCK EXCHANGE, INC.:
No material aspects related to this relationship

Instinet, LLC:
No material aspects related to this relationship

NYSE Arca, Inc.:
No material aspects related to this relationship

CBOE BZX Exchange:
No material aspects related to this relationship

UBS Securities, LLC ATS:
No material aspects related to this relationship

Cboe EDGX Exchange, Inc.:
No material aspects related to this relationship

NYSE MKT LLC:
No material aspects related to this relationship

Citadel Securities:
No material aspects related to this relationship

August 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	1.24	48.76	45.63	4.37

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)
Nasdaq Stock Exchange (INET)	39.69	12.32	55.73	26.14	9.88	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	11.40	43.64	2.58	20.53	5.25	-253.74	-10.0000	-1,038.59	-13.6902	-3,733.37	-23.1464	-33.79	-29.3868
NYSE Arca, Inc.	9.76	21.22	2.00	18.68	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC ATS	8.40	0.00	12.63	3.43	15.53	0.00	0.0000	-503.42	-10.0000	-63.78	-10.0000	-39.54	-10.0000
CBOE BZX Exchange	5.48	1.48	3.21	8.54	0.01	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Cboe EDGX Exchange, Inc.	4.35	0.00	1.92	7.49	0.02	0.00	0.0000	-133.89	-24.2526	-28.49	-4.6276	-0.16	-30.0000
Citadel Securities	4.25	0.00	5.99	1.71	12.68	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Goldman Sachs & Co. LLC SIGMA X2	4.10	0.00	4.94	1.25	25.63	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC	3.62	4.04	0.73	7.04	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Intelligentcross	3.39	0.00	4.98	1.38	7.64	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Nasdaq Stock Exchange (INET):
No material aspects related to this relationship

NEW YORK STOCK EXCHANGE, INC.:
No material aspects related to this relationship

NYSE Arca, Inc.:
No material aspects related to this relationship

UBS Securities, LLC ATS:
No material aspects related to this relationship

CBOE BZX Exchange:
No material aspects related to this relationship

Cboe EDGX Exchange, Inc.:
No material aspects related to this relationship

Citadel Securities:
No material aspects related to this relationship

Goldman Sachs & Co. LLC SIGMA X2:
No material aspects related to this relationship

NYSE MKT LLC:
No material aspects related to this relationship

August 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	0.04	22.68	48.94	28.34

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)
Cboe Exchange, Inc.	36.37	0.00	24.77	47.02	27.31	0.00	0.0000	-377.19	-0.3528	-1,227.32	-0.3695	-3,534.93	-0.5329
NYSE ARCA OPTIONS	11.90	0.00	1.83	17.69	9.99	0.00	0.0000	-55.86	-0.4900	373.18	0.4370	406.29	0.3910
CBOE EDGX OPTIONS EXCHANGE	11.36	0.00	6.79	12.76	12.63	0.00	0.0000	165.97	0.2150	419.06	0.1780	445.72	0.3702
Cboe C2 Exchange, Inc.	8.91	0.00	0.92	10.88	11.89	0.00	0.0000	-8.18	-0.4090	916.02	0.4110	-81.51	-0.0639
Nyse Chicago, Inc.	4.79	0.00	4.77	0.17	12.78	0.00	0.0000	10.47	0.0102	0.00	0.0000	46.17	0.0475
INTERNATIONAL SECURITIES EXCHANGE, LLC	4.45	100.00	4.40	0.09	11.89	-9.25	-0.3700	0.50	0.0027	0.00	0.0000	87.70	0.2351

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NASDAQ OPTIONS MARKET	4.29	0.00	7.89	5.10	0.00	0.00	0.0000	-786.81	-0.5119	36.25	0.2500	0.00	0.0000
ISE MERCURY, LLC	3.95	0.00	15.41	0.00	1.62	0.00	0.0000	256.06	0.3254	0.00	0.0000	16.57	0.0229
MIAX EMERALD, LLC	3.87	0.00	0.55	1.02	11.45	0.00	0.0000	-8.10	-0.6750	0.00	0.0000	203.15	0.2511
BOX Exchange LLC	2.70	0.00	11.38	0.00	0.44	0.00	0.0000	1,134.78	0.4380	0.00	0.0000	147.00	0.5000

Material Aspects:

Cboe Exchange, Inc.:

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NYSE ARCA OPTIONS:

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CBOE EDGX OPTIONS EXCHANGE:

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Cboe C2 Exchange, Inc.:

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NASDAQ OPTIONS MARKET:

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BOX Exchange LLC:

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September 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	4.83	29.12	62.52	3.53

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)
Nasdaq Stock Exchange (INET)	47.20	24.56	67.40	42.21	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	20.96	72.54	6.44	24.93	0.00	-441.02	-9.9624	-192.55	-9.2757	-1,057.72	-26.3461	0.00	0.0000
NYSE Arca, Inc.	7.21	0.00	2.97	10.15	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE BZX Exchange	5.55	0.00	2.67	7.63	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Cboe EDGX Exchange, Inc.	4.45	0.00	2.54	5.93	0.00	0.00	0.0000	-60.58	-21.3710	-37.42	-28.1208	0.00	0.0000
BBG_PRIMEX	3.23	0.00	0.00	0.00	91.52	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE MKT LLC	3.10	0.00	1.31	4.35	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Instinet, LLC	2.74	2.83	0.85	3.30	8.45	-22.73	-10.0000	-45.21	-10.0000	-130.90	-10.0000	-75.68	-10.0000
Investors Exchange (IEXG)	1.56	0.00	4.18	0.56	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
CBOE EDGA US Equities Exchange	1.20	0.00	3.50	0.30	0.00	0.00	0.0000	-167.61	-30.0000	-20.62	-30.0000	0.00	0.0000

Material Aspects:

Nasdaq Stock Exchange (INET):

No material aspects related to this relationship

NEW YORK STOCK EXCHANGE, INC.:

No material aspects related to this relationship

NYSE Arca, Inc.:

No material aspects related to this relationship

CBOE BZX Exchange:

No material aspects related to this relationship

Cboe EDGX Exchange, Inc.:

No material aspects related to this relationship

NYSE MKT LLC:

No material aspects related to this relationship

Instinet, LLC:

No material aspects related to this relationship

Investors Exchange (IEXG):

No material aspects related to this relationship

CBOE EDGA US Equities Exchange:

No material aspects related to this relationship

September 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	1.38	39.75	56.86	2.01

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)
Nasdaq Stock Exchange (INET)	40.93	11.10	66.55	24.97	6.50	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NYSE Arca, Inc.	12.66	31.73	3.11	19.29	0.79	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
NEW YORK STOCK EXCHANGE, INC.	11.88	42.18	2.82	17.46	12.21	-326.82	-10.0000	-343.91	-6.0610	-5,143.21	-25.7108	-76.46	-24.9085
CBOE BZX Exchange	7.71	0.21	1.93	12.20	0.16	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Cboe EDGX Exchange, Inc.	6.60	0.00	1.65	10.45	0.08	0.00	0.0000	-284.06	-22.2685	-296.94	-15.3846	-0.38	-30.0000
NYSE MKT LLC	6.06	3.35	1.27	9.68	0.02	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
UBS Securities, LLC ATS	3.42	0.00	5.42	1.39	23.64	0.00	0.0000	-308.12	-10.0000	-36.53	-10.0000	-53.18	-10.0000
Citadel Securities	1.77	0.00	2.83	0.71	11.86	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Intelligentcross	1.50	0.00	2.29	0.62	11.86	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Goldman Sachs & Co. LLC SIGMA X2	1.43	0.00	2.31	0.60	8.35	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

Material Aspects:

Nasdaq Stock Exchange (INET):
No material aspects related to this relationship

NYSE Arca, Inc.:
No material aspects related to this relationship

NEW YORK STOCK EXCHANGE, INC.:
No material aspects related to this relationship

CBOE BZX Exchange:
No material aspects related to this relationship

Cboe EDGX Exchange, Inc.:
No material aspects related to this relationship

NYSE MKT LLC:
No material aspects related to this relationship

UBS Securities, LLC ATS:
No material aspects related to this relationship

Citadel Securities:
No material aspects related to this relationship

Goldman Sachs & Co. LLC SIGMA X2:
No material aspects related to this relationship

September 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	0.11	17.09	53.61	29.19

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)
Cboe Exchange, Inc.	53.96	0.00	54.04	68.84	26.79	0.00	0.0000	-1,786.79	-0.4624	-2,769.55	-0.5386	-6,228.25	-0.5275
NYSE ARCA OPTIONS	8.03	0.00	2.69	8.51	10.30	0.00	0.0000	-151.41	-0.4900	168.85	0.6622	271.26	0.3931
CBOE EDGX OPTIONS EXCHANGE	7.96	0.00	3.52	7.52	11.39	0.00	0.0000	63.10	0.2842	195.72	0.2100	705.55	0.3851
Cboe C2 Exchange, Inc.	7.61	0.00	1.24	6.40	13.58	0.00	0.0000	-23.65	-0.4300	247.80	0.4200	76.00	0.1105
MIAX EMERALD, LLC	3.89	0.00	1.24	0.07	12.48	0.00	0.0000	154.74	0.3306	10.07	0.5300	391.40	0.2515
INTERNATIONAL SECURITIES EXCHANGE, LLC	3.72	100.00	3.11	0.00	10.55	-14.80	-0.3700	14.51	0.0704	0.00	0.0000	170.94	0.2267
Nyse Chicago, Inc.	3.54	0.00	1.45	0.07	11.15	0.00	0.0000	14.00	0.2090	0.00	0.0000	51.16	0.0465
NASDAQ OPTIONS MARKET	3.22	0.00	2.28	5.28	0.00	0.00	0.0000	-183.26	-0.4900	95.10	0.2991	0.00	0.0000
ISE MERCURY, LLC	2.72	0.00	13.25	0.07	1.45	0.00	0.0000	151.39	0.2835	2.66	0.2660	249.06	0.2650
Nasdaq GEMX, LLC	1.63	0.00	1.45	2.57	0.00	0.00	0.0000	-25.44	-0.4800	82.40	0.4964	0.00	0.0000

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CBOE EDGX OPTIONS EXCHANGE:

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