

BTIG, LLC - Held NMS Stocks and Options Order Routing Public Report

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1st Quarter, 2023

January 2023

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
-	-	-	-	-

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)

January 2023

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
-	-	-	-	-

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)

January 2023

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
44.65	0.77	10.42	58.38	30.43

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)
Dash/IMC Financial Markets	50.77	43.56	44.06	47.23	60.03	-120.19	-0.4497	-21,831.06	-21.6153	-1,153.81	-4.3056	45,476.78	5.7631
Goldman Sachs & Co LLC	10.14	6.93	11.31	12.74	4.84	-33.78	-3.0000	-590.88	-3.0000	-916.26	-3.0000	0.00	0.0000
INTERNATIONAL SECURITIES EXCHANGE, LLC	4.00	0.00	3.06	4.09	4.27	0.00	0.0000	-40.74	-38.0794	342.62	76.1378	16.28	34.6489
MIAX EMERALD, LLC	3.97	0.00	0.36	6.70	0.07	0.00	0.0000	-0.49	-2.0417	268.88	60.6964	5.70	81.5000
CBOE BZX OPTIONS EXCHANGE	3.88	0.00	0.95	6.44	0.07	0.00	0.0000	-32.20	-44.1164	361.36	68.0537	6.52	81.5000
C2 Options Exchange, Inc.	3.76	0.00	1.31	3.94	4.34	0.00	0.0000	-70.10	-39.3820	176.22	58.3510	46.06	71.9688
NASDAQ OMX BX OPTIONS	3.73	0.00	3.57	5.73	0.05	0.00	0.0000	-156.26	-43.7717	185.62	58.7405	0.86	86.5000
MIAX Pearl, LLC	3.15	0.00	2.26	4.91	0.17	0.00	0.0000	-494.00	-51.7283	121.02	50.2137	11.08	34.6250
NYSE ARCA OPTIONS	2.20	0.00	1.46	1.31	4.22	0.00	0.0000	-273.32	-51.8624	12.72	24.9510	28.58	64.9545
MIAMI INTERNATIONAL SECURITIES EXCHANGE	2.02	0.00	7.08	0.04	4.14	0.00	0.0000	-12.32	-3.5000	-0.07	-3.5000	-0.35	-3.5000

Material Aspects:

Dash/IMC Financial Markets:

Firm charged commission plus exchange, regulatory, market data, and clearing fees, less exchange rebates and ISE spread credits. where applicable. The Firm is charged \$0.03/contract.

Dash Financial Technologies LLCs most recent report pursuant to SEC Rule 606(a) is available at:

<https://dashfinancial.com/rule-606/>

INTERNATIONAL SECURITIES EXCHANGE, LLC:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

<https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

MIAX EMERALD, LLC:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

<https://www.miaxoptions.com/fees-archive/emerald>

CBOE BZX OPTIONS EXCHANGE:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

https://www.cboe.com/us/options/membership/fee_schedule/bzx/

C2 Options Exchange, Inc.:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: https://www.cboe.com/us/options/membership/fee_schedule/ctwo/

NASDAQ OMX BX OPTIONS:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: http://www.nasdaqtrader.com/trader.aspx?id=bx_pricing

MIAX Pearl, LLC:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: <https://www.miaxoptions.com/fees-archive/pearl>

NYSE ARCA OPTIONS:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

MIAMI INTERNATIONAL SECURITIES EXCHANGE:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: <https://www.miaxoptions.com/fees-archive>

February 2023

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
-	-	-	-	-

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)

February 2023

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
-	-	-	-	-

Venues

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February 2023

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
41.84	0.90	9.41	69.30	20.40

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)
Dash/IMC Financial Markets	45.00	48.15	44.79	39.15	64.85	-1,322.36	-6.5907	-52,626.84	-20.8615	-5,125.00	-9.4158	94,988.07	3.8697
Goldman Sachs & Co LLC	12.80	9.26	17.67	15.79	0.57	-26.94	-3.0000	-929.40	-3.0000	-999.09	-3.0000	0.00	0.0000
MIAX EMERALD, LLC	5.48	0.00	0.71	7.28	1.79	0.00	0.0000	-24.06	-75.1875	185.64	55.7492	47.11	35.1567
NASDAQ OMX BX OPTIONS	4.96	0.00	3.36	6.69	0.04	0.00	0.0000	-41.88	-44.0789	32.90	8.7747	0.00	0.0000
C2 Options Exchange, Inc.	4.87	0.00	0.88	5.65	4.28	0.00	0.0000	-32.27	-46.1000	-33.00	-6.9463	145.82	11.6753
CBOE BZX OPTIONS EXCHANGE	4.84	0.00	0.97	6.85	0.04	0.00	0.0000	-64.44	-76.7143	247.38	26.6000	0.00	0.0000
MIAX Pearl, LLC	3.79	0.00	2.12	5.14	0.12	0.00	0.0000	-798.56	-77.9078	-919.82	-44.3712	0.82	81.5000
INTERNATIONAL SECURITIES EXCHANGE, LLC	3.26	0.00	2.47	3.35	3.46	0.00	0.0000	-11.10	-31.7000	120.56	69.2874	68.60	28.5833
NYSE ARCA OPTIONS	2.86	0.00	0.88	2.19	6.15	0.00	0.0000	-10.32	-54.2895	-29.66	-19.0128	-2,410.50	-28.7067
Nasdaq GEMX, LLC	1.74	0.00	0.44	2.46	0.00	0.00	0.0000	-18.88	-82.1087	22.46	19.8805	0.00	0.0000

Material Aspects:

Dash/IMC Financial Markets:

Firm charged commission plus exchange, regulatory, market data, and clearing fees, less exchange rebates and ISE spread credits. where applicable. The Firm is charged \$0.03/contract.

Dash Financial Technologies LLCs most recent report pursuant to SEC Rule 606(a) is available at:

<https://dashfinancial.com/rule-606/>

MIAX EMERALD, LLC:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

<https://www.miaxoptions.com/fees-archive/emerald>

NASDAQ OMX BX OPTIONS:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: http://www.nasdaqtrader.com/trader.aspx?id=bx_pricing

C2 Options Exchange, Inc.:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: https://www.cboe.com/us/options/membership/fee_schedule/ctwo/

CBOE BZX OPTIONS EXCHANGE:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: https://www.cboe.com/us/options/membership/fee_schedule/bzx/

MIAX Pearl, LLC:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: <https://www.miaxoptions.com/fees-archive/pearl>

INTERNATIONAL SECURITIES EXCHANGE, LLC:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: <https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

NYSE ARCA OPTIONS:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Nasdaq GEMX, LLC:
Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here: <https://listingcenter.nasdaq.com/rulebook/gemx/rules/gemx-options-7>

March 2023

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
-	-	-	-	-

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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March 2023

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
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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
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Venues

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March 2023

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
45.22	0.77	7.16	63.88	28.18

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)
Dash/IMC Financial Markets	37.75	69.12	50.04	34.15	41.93	-560.66	-6.2206	-44,938.08	-26.1990	-800.00	-11.2708	136,202.75	8.8616
Goldman Sachs & Co LLC	8.34	8.09	14.14	10.53	1.90	-270.27	-3.0000	-831.87	-3.0000	-953.94	-3.0000	0.00	0.0000
MIAX EMERALD, LLC	6.42	0.00	0.71	8.76	2.77	0.00	0.0000	-17.30	-64.0556	384.21	54.4207	82.16	33.6721
INTERNATIONAL SECURITIES EXCHANGE, LLC	6.10	0.00	3.42	5.28	8.80	0.00	0.0000	-461.54	-40.3801	463.86	79.4281	95.07	34.1978
NASDAQ OMX BX OPTIONS	5.59	0.00	2.86	8.33	0.24	0.00	0.0000	-108.45	-45.9534	261.06	47.2935	0.00	0.0000
C2 Options Exchange, Inc.	4.75	0.00	0.56	5.64	3.94	0.00	0.0000	-25.04	-45.5182	211.70	45.7225	290.68	52.6594
CBOE BZX OPTIONS EXCHANGE	4.67	0.00	1.03	7.09	0.24	0.00	0.0000	-116.52	-49.7949	721.34	60.6674	0.00	0.0000
MIAX Pearl, LLC	4.54	0.00	2.22	6.80	0.14	0.00	0.0000	-1,255.70	-51.8884	-261.06	-25.9250	0.82	81.5000
NYSE ARCA OPTIONS	3.40	0.00	1.35	3.52	3.76	0.00	0.0000	-85.23	-56.8200	144.68	32.5112	-782.16	-37.6038
CBOE EDGX OPTIONS EXCHANGE	3.33	0.00	3.18	0.04	10.94	0.00	0.0000	-33.28	-2.5000	-0.08	-2.5000	340.82	51.9543

Material Aspects:

Dash/IMC Financial Markets:

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MIAX EMERALD, LLC:

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<https://www.miaxoptions.com/fees-archive/emerald>

INTERNATIONAL SECURITIES EXCHANGE, LLC:

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<https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

NASDAQ OMX BX OPTIONS:

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http://www.nasdaqtrader.com/trader.aspx?id=bx_pricing

C2 Options Exchange, Inc.:

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https://www.cboe.com/us/options/membership/fee_schedule/ctwo/

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https://www.cboe.com/us/options/membership/fee_schedule/bzx/

MIAX Pearl, LLC:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

<https://www.miaxoptions.com/fees-archive/pearl>

NYSE ARCA OPTIONS:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

CBOE EDGX OPTIONS EXCHANGE:

Venue is a result of routes to Wolverine Execution Services, LLC. Firm charged commission plus exchange and clearing fees, less exchange rebates where applicable. The Firm is charged \$0.035/contract. Detailed fee schedule is available here:

https://www.cboe.com/us/options/membership/fee_schedule/edgx/