

DASH Financial Technologies LLC - Held NMS Stocks and Options Order Routing Public Report

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2nd Quarter, 2020

April 2020

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
70.65	1.22	86.98	0.00	11.80

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)
Two Sigma	17.93	0.00	0.00	0.00	18.51								
Citadel ATS	17.10	0.00	0.00	0.00	17.65								
Virtu Link	10.26	0.00	0.00	0.00	10.59								
IMC	9.24	0.00	0.00	0.00	9.54								
Jane Street JX	9.07	0.00	0.00	0.00	9.37								
NASDAQ	7.35	0.00	0.00	17.95	7.09					-4.7600	-0.1165	-5.4100	-0.0022
NYSE Arca	5.37	0.00	0.00	64.62	3.78					-14.6500	-0.0937	-1.2300	-0.0010
NYSE	5.21	0.00	0.00	17.44	4.90					-2.9000	-0.0466	-12.1200	-0.0056
Cboe EDGA	3.66	0.00	0.00	0.00	3.78								
Cboe EDGX	2.65	0.00	0.00	0.00	2.74								

Material Aspects:

New York Stock Exchange (NYSE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nyse.com/markets/nyse/trading-info/fees>

NYSE Arca Equities (ARCAE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

CBOE EDGA U.S. Equities Exchange (EDGA) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX U.S. Equities Exchange (EDGX) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

CBOE BYX U.S. Equities Exchange (BAY) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

NASDAQ Exchange (NSDQ) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

CBOE BZX U.S. Equities Exchange (BATS) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

IMC (IMCS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Virtu Link (NITEL) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Two Sigma (2SIGMA) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Citadel ATS (CITATS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Jane Street JX (JSJX) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Note: DASH accesses equities exchanges either directly or via a routing arrangement with Bank of America Securities (BofAS). Under this arrangement, DASH receives a better rate if BofAS has a better price tier than the base rate. In addition, for orders routed through BofAS, DASH pays a small routing fee. Material aspects of BAML's relationships with various equities venues can be found here - https://www.bofaml.com/en-us/content/best_execution.html

April 2020

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
88.15	0.17	93.81	0.00	6.02

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)
Virtu Link	24.15	0.00	0.00	0.00	24.42								
IMC	13.26	0.00	0.00	0.00	13.40								
NASDAQ	12.01	0.00	0.00	10.37	12.06					-7.4100	-0.0693	-80.1300	-0.0037
NYSE	10.22	0.00	0.00	21.07	10.16					-4.0800	-0.0240	-23.6000	-0.0007
NYSE Arca	8.40	0.00	0.98	68.56	7.92			-0.3300	-0.1100	-19.2500	-0.0630	-113.7200	-0.0082
Cboe EDGX	5.93	0.00	0.00	0.00	6.00							31.5400	0.0018
Cboe BZX	5.13	0.00	0.00	0.00	5.18							-0.1200	
Citadel ATS	4.86	0.00	0.00	0.00	4.91								
Two Sigma	4.53	0.00	0.00	0.00	4.58								
Jane Street JX	2.80	0.00	0.00	0.00	2.83								

Material Aspects:

New York Stock Exchange (NYSE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nyse.com/markets/nyse/trading-info/fees>

NYSE Arca Equities (ARCAE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

CBOE EDGA U.S. Equities Exchange (EDGA) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX U.S. Equities Exchange (EDGX) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

CBOE BYX U.S. Equities Exchange (BATY) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

NASDAQ Exchange (NSDQE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

CBOE BZX U.S. Equities Exchange (BATS) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here- https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

IMC (IMCS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Virtu Link (NITEL) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Two Sigma (2SIGMA) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Citadel ATS (CITATS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Jane Street JX (JSJX) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Note: DASH accesses equities exchanges either directly or via a routing arrangement with Bank of America Securities (BoFAS). Under this arrangement, DASH receives a better rate if BoFAS has a better price tier than the base rate. In addition, for orders routed through BoFAS, DASH pays a small routing fee. Material aspects of BAML's relationships with various equities venues can be found here - https://www.bofaml.com/en-us/content/best_execution.html

April 2020

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
0.07	0.59	6.16	4.97	88.28

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)
NYSE Arca	45.35	0.00	0.11	85.32	45.05					-10,286.1000	-0.3032	-305,671.6900	-0.1658
Cboe BZX	18.18	100.00	5.62	12.47	18.26	-2,9900	-0.2300	-315.2900	-0.1844	-2,258.4600	-0.2392	-28,916.0700	-0.0254
NASDAQ	9.68	0.00	0.00	0.01	9.79					-22.2000	-0.2176	-1,803.1600	-0.0009
Cboe C1	9.18	0.00	23.92	0.06	9.24			-10,835.2500	-0.1473	-16.8900	-0.2165	-108,151.8000	-0.1924
NASDAQ PHLX	7.18	0.00	0.01	0.01	7.26							-32,107.7000	-0.1437
MIAX	1.86	0.00	13.77	0.37	1.85			-5,302.0500	-0.1880	-135.2000	-0.3852	-16,815.6800	-0.0498
MIAX Pearl	1.38	0.00	0.00	0.10	1.40					-28.6500	-0.1500	-0.7000	
NASDAQ ISE	1.32	0.00	2.89	0.00	1.33							-86,028.7000	-0.3288
Cboe EDGX	1.02	0.00	23.78	1.59	0.97			-5,874.8400	-0.4286	-501.9800	-0.2126	-22,724.4700	-0.1157
NASDAQ BX	0.94	0.00	0.00	0.00	0.95								

Material Aspects:

CBOE Exchange, Inc. (CBOE) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://cdn.cboe.com/resources/membership/Cboe_FeeSchedule.pdf

CBOE BZX Options Exchange (BATO) DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://markets.cboe.com/us/options/membership/fee_schedule/bzx/

CBOE EDGX Options Exchange (EDGO) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://markets.cboe.com/us/options/membership/fee_schedule/edgx/

NYSE ARCA Options (ARCA) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

NYSE American Options (AMEX) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

BOX Options (BOX) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - <https://boxoptions.com/regulatory/fee-schedule/>

MIAX Options (MIAX) DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Options_Fee_Schedule_04292020.pdf

MIAX PEARL (MPRL) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_PEARL_Fee_Schedule_04012020.pdf

NASDAQ (PHLX, BX, ISE, NSDQO) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules>

Notes: (1) Exchanges have tiers that depend on a range of factors and may not necessarily apply to the orders covered by this report. The fee paid or rebate received for customer not-held orders that are subject to these disclosures is as disclosed in this public report. (2) DASH operates an ATS (DASH ATS) for options. However, Dash ATS is not reported as a venue because the ATS does not execute subscriber orders, and no trades actually occur on Dash ATS. All transactions facilitated by the ATS occur through the automated auction facilities of registered options exchanges pursuant to the exchanges' rules. As such, DASH is paid a commission/fee by the subscribers, both originating order senders and the contra liquidity providers, of the ATS. The transactions facilitated by the ATS are subject to fee and rebate structures contained in the aforementioned agreements. (3) CBOE, EDGO, AMEX, MIAX, PHLX, ISE and MRX have Marketing Fee arrangements which are described in the exchanges' fee schedules. Where such Marketing Fee arrangements exist, DASH may receive a portion of the fees

May 2020

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
87.97	0.29	74.42	0.00	25.29

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 ATS	22.97	0.00	0.00	0.00	23.44								
Two Sigma	20.97	0.00	0.00	0.00	21.40								
Virtu Link	10.73	0.00	0.00	0.00	10.95								
IMC	9.75	0.00	0.00	0.00	9.95								
NASDAQ	7.01	0.00	0.00	18.38	6.81				-2.0500	-0.0394	-5.2000	-0.0027	
NYSE Arca	4.99	0.00	0.00	62.70	3.91				-9.5200	-0.0554	-8.2500	-0.0063	
Jane Street JX	4.49	0.00	0.00	0.00	4.58								
NYSE	3.54	0.00	0.00	18.92	3.25				-0.8800	-0.0119	-4.5000	-0.0025	
Cboe EDGA	2.95	0.00	0.00	0.00	3.01								
Cboe BZX	2.67	0.00	0.00	0.00	2.72								

Material Aspects:

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IMC (IMCS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Virtu Link (NITEL) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Two Sigma (2SIGMA) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Citadel ATS (CITATS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Jane Street JX (JSJX) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

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May 2020

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
75.33	0.90	91.39	0.00	7.72

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	20.36	0.00	0.00	11.24	20.55					-12.4100	-0.1334	-48.5800	-0.0014
Cboe EDGX	13.62	0.00	0.00	0.00	13.79							61.5600	0.0017
NYSE	12.50	0.00	0.00	15.17	12.55					-8.1600	-0.0815	-58.3800	-0.0016
NYSE Arca	9.63	0.00	0.00	70.79	9.24					-16.5900	-0.0853	-68.2500	-0.0035
Cboe BZX	6.57	0.00	0.00	0.56	6.65								
Two Sigma	6.54	0.00	0.00	0.00	6.63								
Citadel ATS	6.49	0.00	0.00	0.00	6.57								
Virtu Link	3.64	0.00	0.00	0.00	3.68								
IMC	3.43	0.00	0.00	0.00	3.47								
Jane Street JX	2.71	0.00	0.00	0.00	2.75								

Material Aspects:

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Jane Street JX (JSJX) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

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May 2020

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
0.05	0.94	7.15	6.69	85.23

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)
NYSE Arca	57.26	0.00	0.01	87.61	57.04					-24,942.0400	-0.4112	-403,409.5300	-0.2653
Cboe BZX	13.05	100.00	3.39	9.77	13.14	-10.1200	-0.3265	-1,126.7700	-0.2623	-3,703.9200	-0.3354	-32,466.3600	-0.0422
NASDAQ	8.31	0.00	0.00	0.05	8.47					-33.9000	-0.3000	-5,603.3500	-0.0052
Cboe C1	6.60	0.00	24.27	0.12	6.63			-23,388.7900	-0.1978	-43.7000	-0.3035	-139,909.5100	-0.3154
NASDAQ PHLX	3.44	0.00	0.00	0.02	3.51							-62,385.0400	-0.2320
MIAx	2.01	0.00	13.51	0.37	1.99			-7,190.0000	-0.2708	-111.6500	-0.3084	-4,086.6900	-0.0245
NASDAQ ISE	1.58	0.00	3.83	0.00	1.59							-114,383.4600	-0.4458
MIAx Pearl	1.21	0.00	0.00	0.19	1.23					-98.7000	-0.2065	-351.4500	-0.0006
NASDAQ BX	1.17	0.00	0.00	0.00	1.20								
Cboe EDGX	1.16	0.00	26.08	1.82	1.05			-11,611.5700	-0.5209	-1,098.1600	-0.3016	-44,338.5800	-0.2571

Material Aspects:

CBOE Exchange, Inc. (CBOE) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://cdn.cboe.com/resources/membership/Cboe_FeeSchedule.pdf

CBOE BZX Options Exchange (BATO) DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://markets.cboe.com/us/options/membership/fee_schedule/bzx/

CBOE EDGX Options Exchange (EDGO) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://markets.cboe.com/us/options/membership/fee_schedule/edgx/

NYSE ARCA Options (ARCA) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

NYSE American Options (AMEX) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

BOX Options (BOX) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - <https://boxoptions.com/regulatory/fee-schedule/>

MIAX Options (MIAX) DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Options_Fee_Schedule_04292020.pdf

MIAX PEARL (MPRL) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_PEARL_Fee_Schedule_04012020.pdf

NASDAQ (PHLX, BX, ISE, NSDQO) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules>

Notes: (1) Exchanges have tiers that depend on a range of factors and may not necessarily apply to the orders covered by this report. The fee paid or rebate received for customer not-held orders that are subject to these disclosures is as disclosed in this public report. (2) DASH operates an ATS (DASH ATS) for options. However, Dash ATS is not reported as a venue because the ATS does not execute subscriber orders, and no trades actually occur on Dash ATS. All transactions facilitated by the ATS occur through the automated auction facilities of registered options exchanges pursuant to the exchanges' rules. As such, DASH is paid a commission/fee by the subscribers, both originating order senders and the contra liquidity providers, of the ATS. The transactions facilitated by the ATS are subject to fee and rebate structures contained in the aforementioned agreements. (3) CBOE, EDGO, AMEX, MIAX, PHLX, ISE and MRX have Marketing Fee arrangements which are described in the exchanges' fee schedules. Where such Marketing Fee arrangements exist, DASH may receive a portion of the fees

June 2020

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
92.09	0.22	88.10	0.00	11.68

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 ATS	27.76	0.00	0.00	0.00	28.56								
Two Sigma	19.58	0.00	0.00	0.00	20.14								
Virtu Link	11.08	0.00	0.00	0.00	11.40								
IMC	10.72	0.00	0.00	0.00	11.02								
NASDAQ	8.52	0.00	0.00	15.48	8.35					-6.1700	-0.0545	91.5800	0.0191
NYSE Arca	5.19	0.00	0.00	69.04	3.48					-28.7300	-0.0734	60.9800	0.0328
Cboe EDGX	3.35	0.00	0.00	0.00	3.45							40.0500	0.0264
NYSE	3.18	0.00	0.00	15.48	2.86					-3.5600	-0.0308	53.1900	0.0226
Cboe EDGA	2.41	0.00	0.00	0.00	2.48							-15.8500	-0.0212
Cboe BZX	1.63	0.00	0.00	0.00	1.68							16.5000	0.0336

Material Aspects:

New York Stock Exchange (NYSE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nyse.com/markets/nyse/trading-info/fees>

NYSE Arca Equities (ARCAE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

CBOE EDGA U.S. Equities Exchange (EDGA) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX U.S. Equities Exchange (EDGX) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

CBOE BYX U.S. Equities Exchange (BATY) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

NASDAQ Exchange (NSDQE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

CBOE BZX U.S. Equities Exchange (BATS) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here- https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

IMC (IMCS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Virtu Link (NITEL) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Two Sigma (2SIGMA) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Citadel ATS (CITATS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Jane Street JX (JSJX) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Note: DASH accesses equities exchanges either directly or via a routing arrangement with Bank of America Securities (BoFAS). Under this arrangement, DASH receives a better rate if BoFAS has a better price tier than the base rate. In addition, for orders routed through BoFAS, DASH pays a small routing fee. Material aspects of BAML's relationships with various equities venues can be found here - https://www.bofaml.com/en-us/content/best_execution.html

June 2020

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
70.52	0.69	85.09	0.00	14.22

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	19.98	0.00	0.00	4.32	20.30					-5.1300	-0.1047	228.2900	0.0085
Cboe EDGX	12.67	0.00	0.00	0.00	12.92							266.9000	0.0073
NYSE	12.60	0.00	0.00	15.11	12.61					-4.4800	-0.0380	91.4700	0.0029
NYSE Arca	11.65	0.00	0.00	80.58	10.63					-15.9400	-0.0375	133.9300	0.0059
Citadel ATS	7.30	0.00	0.00	0.00	7.44								
Two Sigma	5.51	0.00	0.00	0.00	5.62								
Cboe BZX	5.42	0.00	0.00	0.00	5.53							64.0300	0.0085
IMC	4.21	0.00	0.00	0.00	4.30								
Virtu Link	3.79	0.00	0.00	0.00	3.86								
NYSE American	2.27	0.00	0.00	0.00	2.31							72.9000	0.0223

Material Aspects:

New York Stock Exchange (NYSE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nyse.com/markets/nyse/trading-info/fees>

NYSE Arca Equities (ARCAE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

CBOE EDGA U.S. Equities Exchange (EDGA) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

CBOE EDGX U.S. Equities Exchange (EDGX) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

CBOE BYX U.S. Equities Exchange (BATY) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

NASDAQ Exchange (NSDQE) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here - <https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

CBOE BZX U.S. Equities Exchange (BATS) - Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule can be found here- https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

IMC (IMCS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Virtu Link (NITEL) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Two Sigma (2SIGMA) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Citadel ATS (CITATS) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Jane Street JX (JSJX) - DASH did not receive any PFOF nor did it pay any fee for orders routed to this venue.

Note: DASH accesses equities exchanges either directly or via a routing arrangement with Bank of America Securities (BofAS). Under this arrangement, DASH receives a better rate if BofAS has a better price tier than the base rate. In addition, for orders routed through BofAS, DASH pays a small routing fee. Material aspects of BAML's relationships with various equities venues can be found here - https://www.bofaml.com/en-us/content/best_execution.html

June 2020

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
0.04	1.74	6.76	6.85	84.66

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)
NYSE Arca	69.31	0.00	0.06	86.04	0.00					15,249.1300	0.2280	175,323.8700	0.0866
Cboe BZX	8.76	100.00	2.83	10.91	0.00	-6.2100	-0.4140	-1,969.4600	-0.2462	-4,048.0200	-0.3106	-3,123.2800	-0.0033
NASDAQ	8.61	0.00	0.00	0.36	0.00					-29.2800	-0.1368	35,851.6100	0.0373
Cboe C1	4.38	0.00	24.69	0.29	0.00			-30,633.5800	-0.1898	-770.1600	-0.7625	-144,083.1700	-0.2931
NASDAQ PHLX	1.98	0.00	0.01	0.01	0.00					-4.2000	-0.1200	-24,461.8700	-0.0957
MIAX	1.28	0.00	11.58	0.17	0.00			-11,177.2000	-0.2909	-99.0500	-0.4026	3,194.7500	0.0163
NASDAQ ISE	0.99	0.00	3.11	0.00	0.00			1,447.4500	0.0252			-65,350.3000	-0.3064
NASDAQ BX	0.82	0.00	0.00	0.00	0.00							167.4700	0.0139
MIAX Pearl	0.80	0.00	0.00	0.19	0.00					-115.2500	-0.2077	41,810.5400	0.0447
Cboe EDGX	0.63	0.00	28.65	1.90	0.00			-13,040.4800	-0.4308	-934.0500	-0.2540	-40,824.5000	-0.1814

Material Aspects:

CBOE Exchange, Inc. (CBOE) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://cdn.cboe.com/resources/membership/Cboe_FeeSchedule.pdf

CBOE BZX Options Exchange (BATO) DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://markets.cboe.com/us/options/membership/fee_schedule/bzx/

CBOE EDGX Options Exchange (EDGO) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://markets.cboe.com/us/options/membership/fee_schedule/edgx/

NYSE ARCA Options (ARCA) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

NYSE American Options (AMEX) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

BOX Options (BOX) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - <https://boxoptions.com/regulatory/fee-schedule/>

MIAX Options (MIAX) DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_Options_Fee_Schedule_04292020.pdf

MIAX PEARL (MPRL) - DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here - https://www.miaxoptions.com/sites/default/files/fee_schedule-files/MIAX_PEARL_Fee_Schedule_04012020.pdf

NASDAQ (PHLX, BX, ISE, NSDQO)- DASH routes option orders to the U.S. Option Exchanges and may collect payment in accordance with exchange's published rates. Fees (and rebates) are non-negotiable and are set by the exchange. The fee schedules may contain tiers based on volume thresholds. Detailed fee schedule is available here- <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules>

Notes: (1) Exchanges have tiers that depend on a range of factors and may not necessarily apply to the orders covered by this report. The fee paid or rebate received for customer not-held orders that are subject to these disclosures is as disclosed in this public report. (2) DASH operates an ATS (DASH ATS) for options. However, Dash ATS is not reported as a venue because the ATS does not execute subscriber orders, and no trades actually occur on Dash ATS. All transactions facilitated by the ATS occur through the automated auction facilities of registered options exchanges pursuant to the exchanges' rules. As such, DASH is paid a commission/fee by the subscribers, both originating order senders and the contra liquidity providers, of the ATS. The transactions facilitated by the ATS are subject to fee and rebate structures contained in the aforementioned agreements. (3) CBOE, EDGO, AMEX, MIAX, PHLX, ISE and MRX have Marketing Fee arrangements which are described in the exchanges' fee schedules. Where such Marketing Fee arrangements exist, DASH may receive a portion of the fees