

STATE STREET GLOBAL MARKETS, LLC - 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	89.47	0.00	10.53	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 (CDRG)	25.97	39.22	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	18.18	27.45	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	16.88	25.49	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	16.88	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	9.09	0.00	0.00	53.85	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	5.19	0.00	0.00	30.77	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	3.90	5.88	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	1.30	0.00	0.00	7.69	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Members Exchange (MEMX):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

UBS Securities, LLC (UBSS):

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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	95.24	0.00	4.76	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)
G1 Execution Services, LLC (ETMM)	27.59	40.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	27.59	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	20.69	30.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	17.24	25.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	3.45	0.00	0.00	100.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	3.45	5.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

G1 Execution Services, LLC (ETMM):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

National Financial Services LLC (XSTM):

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Jane Street Capital, LLC (JNST):

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Citadel Securities LLC (CDRG):

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Cboe EDGX US Equities Exchange (EDGX):

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VIRTU Americas, LLC (NITE):

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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	57.14	14.29	14.29	14.29

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 Securities LLC (CDRG)	33.33	0.00	100.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	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)
Susquehanna Capital Group (SUSQ)	33.33	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	33.33	0.00	0.00	100.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

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Susquehanna Capital Group (SUSQ):

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Wolverine Execution Services LLC (WEXX):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

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
100.00	95.29	0.00	4.71	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 (CDRG)	23.48	34.18	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	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)
National Financial Services LLC (XSTM)	20.00	0.00	0.00	0.00	79.31	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	16.52	24.05	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	16.52	22.78	0.00	14.29	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	13.04	18.99	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Instinet BlockCross (BLXX)	5.22	0.00	0.00	0.00	20.69	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	3.48	0.00	0.00	57.14	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	1.74	0.00	0.00	28.57	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

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G1 Execution Services, LLC (ETMM):

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Jane Street Capital, LLC (JNST):

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Instinet BlockCross (BLKX):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

NASDAQ Execution Services, LLC (NSDQ):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

New York Stock Exchange (NYSE):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

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	94.23	0.00	5.77	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 (CDRG)	22.54	32.65	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	22.54	0.00	0.00	0.00	100.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	18.31	24.49	0.00	16.67	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	18.31	26.53	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	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)
Jane Street Capital, LLC (JNST)	9.86	14.29	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	4.23	0.00	0.00	50.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	2.82	0.00	0.00	33.33	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	1.41	2.04	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

National Financial Services LLC (XSTM):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

G1 Execution Services, LLC (ETMM):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

VIRTU Americas, LLC (NITE):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Jane Street Capital, LLC (JNST):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

New York Stock Exchange (NYSE):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Cboe EDGX US Equities Exchange (EDGX):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

UBS Securities, LLC (UBSS):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

November 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	100.00	0.00	0.00	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)

December 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	93.75	0.85	5.40	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 (CDRG)	28.28	40.43	100.00	8.24	0.00	0	0.0000	0	0.0000	0	0.0000	0	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)
G1 Execution Services, LLC (ETMM)	16.77	24.38	0.00	4.71	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	16.77	25.31	0.00	1.18	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
National Financial Services LLC (XSTM)	16.77	0.00	0.00	0.00	98.81	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	10.10	0.00	0.00	58.82	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	5.66	8.02	0.00	2.35	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	3.64	0.00	0.00	21.18	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Two Sigma Securities, LLC (SOHO)	0.61	0.93	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	0.40	0.00	0.00	2.35	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
UBS Securities, LLC (UBSS)	0.40	0.62	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

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VIRTU Americas, LLC (NITE):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

National Financial Services LLC (XSTM):

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)
National Financial Services LLC (XSTM)	20.77	0.00	0.00	0.00	98.18	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Citadel Securities LLC (CDRG)	20.00	33.10	33.33	1.96	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
G1 Execution Services, LLC (ETMM)	19.62	31.69	25.00	5.88	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
VIRTU Americas, LLC (NITE)	16.15	24.65	41.67	3.92	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Jane Street Capital, LLC (JNST)	5.38	9.86	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NYSE Arca (ARCA)	4.62	0.00	0.00	23.53	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
NASDAQ Execution Services, LLC (NSDQ)	4.62	0.00	0.00	23.53	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Cboe EDGX US Equities Exchange (EDGX)	3.46	0.00	0.00	17.65	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
New York Stock Exchange (NYSE)	3.46	0.00	0.00	17.65	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Members Exchange (MEMX)	0.77	0.00	0.00	3.92	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

National Financial Services LLC (XSTM):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Citadel Securities LLC (CDRG):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

G1 Execution Services, LLC (ETMM):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

VIRTU Americas, LLC (NITE):

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 (CDRG)	40.00	50.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Wolverine Execution Services LLC (WEXX)	40.00	25.00	0.00	100.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000
Dash Financial Technologies LLC (DASH)	20.00	25.00	0.00	0.00	0.00	0	0.0000	0	0.0000	0	0.0000	0	0.0000

Material Aspects:

Citadel Securities LLC (CDRG):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Wolverine Execution Services LLC (WEXX):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.

Dash Financial Technologies LLC (DASH):

State Street Global Markets, LLC (the Broker) does not receive payment for order flow or have a profit-sharing arrangement for routing equity orders (held only) to this venue/market maker. Please note, consistent with the requirements of Rule 606, the data above captures only a portion of the Brokers order flow. The Broker routes customer equity orders (not-held) to national securities exchanges, alternative trading systems, market centers and broker-dealers unaffiliated with the Broker. In exchange for the Broker routing equity orders to these execution venues, certain of these venues offer cash credits for orders that provide liquidity to their books and charge explicit fees for orders that extract liquidity from their books while others offer cash credits for orders that extract liquidity from their books and charge explicit fees for orders that provide liquidity to their books. The credits are considered payment for order flow even though they may not offset the Broker's aggregate payment obligations to the venue. In any given month, the credits received by the Broker from a given venue may or may not exceed the debits charged to the Broker for such period. Typically, these order flow credits have resulted in the Broker receiving a credit against a portion of the expenses due from the Broker and do not result in any cash payments to the Broker. However, it is conceivable such credits could result in cash payments to the Broker.