

Virtu ITG LLC - Held NMS Stocks and Options Order Routing Public Report

Generated on Mon Jun 15 2020 15:36:50 GMT-0400 (Eastern Daylight Time)

1st Quarter, 2020

January 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
100.00	4.43	19.11	22.83	53.64

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 ITG LLC	10.62	88.03	11.49	4.37	6.57	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Nasdaq Execution Services, LLC	9.15	0.00	1.80	31.70	2.93	0.00	0.0000	8.92	0.0618	261.28	0.0618	97.36	0.0618
UBS Securities, LLC ATS	6.97	0.00	14.25	1.28	7.37	0.00	0.0000	-266.79	-0.1000	-4.81	-0.1000	-186.13	-0.1000
Virtu ITG LLC POSIT	6.94	11.76	7.28	0.63	9.10								
IEX Services, LLC	6.70	0.00	6.03	5.92	7.82	0.00	0.0000	-112.93	-0.0839	-24.47	-0.0839	-124.13	-0.0839
Morgan Stanley & Co., LLC	5.44	0.00	0.36	14.63	3.80								
Credit Suisse Crossfinder	5.04	0.00	9.97	0.90	5.46	0.00	0.0000	-79.47	-0.0975	-1.27	-0.0975	-34.22	-0.0975
Virtu Americas LLC	4.33	0.00	7.43	0.69	5.13	0.00	0.0000	-23.37	-0.1000	-0.20	-0.1000	-10.17	-0.1000
Instinet, LLC	4.22	0.00	6.84	0.71	5.13	0.00	0.0000	-19.82	-0.1000	-0.10	-0.1000	-3.76	-0.1000
J.P. Morgan Securities LLC	4.10	0.00	5.86	0.67	5.26	0.00	0.0000	-52.33	-0.1000	-0.10	-0.1000	-5.08	-0.1000

Material Aspects:

Nasdaq Execution Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. A portion of the orders routed to this venue were sent via Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway. Nasdaq has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

UBS Securities, LLC ATS:

No material relationship exists between Virtu ITG LLC and this venue.

Virtu ITG LLC POSIT:

POSIT is an alternative trading system owned and operated by Virtu ITG LLC. Virtu ITG LLC receives a commission on a per share basis for orders executed within POSIT.

IEX Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://iextrading.com/trading/fees/>

Morgan Stanley & Co., LLC:

Virtu ITG LLC routes a portion of their market on close order flow to the Nasdaq, NYSE, Bats and Arca exchanges through Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway.

Credit Suisse Crossfinder:

No material relationship exists between Virtu ITG LLC and this venue.

Virtu Americas LLC:

Virtu Financial, Inc., the parent company of Virtu Americas LLC completed the acquisition of Investment Technology Group, Inc on March 1st, 2019.

Instinet, LLC:

No material relationship exists between Virtu ITG LLC and this venue.

J.P. Morgan Securities LLC:

No material relationship exists between Virtu ITG LLC and this venue.

January 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
100.00	3.67	20.25	15.95	60.13

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 Marketable Limit 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)
UBS Securities, LLC ATS	8.34	0.00	15.14	5.43	7.33	0.00	0.0000	-587.30	-0.1000	-216.14	-0.1000	-487.84	-0.1000
IEX Services, LLC	7.55	0.00	7.89	8.06	7.77	0.00	0.0000	-236.13	-0.0839	-74.11	-0.0839	-403.49	-0.0839
Virtu ITG LLC POSIT	7.27	9.88	7.63	1.98	8.39								
Credit Suisse Crossfinder	6.87	0.00	12.01	3.63	6.41	0.00	0.0000	-219.05	-0.0975	-106.09	-0.0975	-188.17	-0.0975
Virtu ITG LLC	6.24	89.48	4.42	3.45	2.52	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Virtu Americas LLC	6.14	0.00	8.74	2.39	6.63	0.00	0.0000	-62.41	-0.1000	-25.31	-0.1000	-31.49	-0.0831
Instinet, LLC	5.82	0.00	7.87	2.15	6.47	0.00	0.0000	-31.20	-0.1000	-19.76	-0.1000	-44.40	-0.1000
J.P. Morgan Securities LLC	5.36	0.00	6.18	1.71	6.38	0.00	0.0000	-48.94	-0.1000	-32.20	-0.1000	-56.41	-0.1000
Goldman Sachs & Co.	4.62	0.00	4.14	1.23	5.96	0.00	0.0000	-47.65	-0.1000	-28.98	-0.1000	-58.04	-0.1000

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)
LLC SIGMA X2													
BIDS TRADING L.P.	4.50	0.00	2.24	0.77	6.53	0.00	0.0000	-26.32	-0.0321	0.00	0.0000	-12.23	-0.0321

Material Aspects:

UBS Securities, LLC ATS:

No material relationship exist between Virtu ITG LLC and this venue.

IEX Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://iextrading.com/trading/fees/>

Virtu ITG LLC POSIT:

POSIT is an alternative trading system owned and operated by Virtu ITG LLC. Virtu ITG LLC receives a commission on a per share basis for orders executed within POSIT.

Credit Suisse Crossfinder:

No material relationship exist between Virtu ITG LLC and this venue.

Virtu Americas LLC:

Virtu Financial, Inc., the parent company of Virtu Americas LLC completed the acquisition of Investment Technology Group, Inc. on March 1, 2019

Instinet, LLC:

No material relationship exist between Virtu ITG LLC and this venue.

J.P. Morgan Securities LLC:

No material relationship exist between Virtu ITG LLC and this venue.

Goldman Sachs & Co. LLC SIGMA X2:

No material relationship exist between Virtu ITG LLC and this venue.

BIDS TRADING L.P.:

No material relationship exist between Virtu ITG LLC and this venue.

January 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

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)

Material Aspects:

February 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
100.00	6.43	12.78	18.41	62.38

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 ITG LLC	11.62	84.05	8.52	0.40	8.11	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Nasdaq Execution Services, LLC	8.59	0.00	2.49	30.44	4.27	0.00	0.0000	5.83	0.0602	147.01	0.0602	142.99	0.0602
Virtu ITG LLC POSIT	8.26	15.02	6.36	0.51	10.24								
IEX Services, LLC	6.93	0.00	6.28	5.93	8.07	0.00	0.0000	-54.92	-0.0855	-16.73	-0.0855	-128.58	-0.0855
UBS Securities, LLC ATS	6.70	0.00	15.28	0.61	7.42	0.00	0.0000	-59.39	-0.1000	-8.85	-0.1000	-211.01	-0.1000
Morgan Stanley & Co., LLC	4.73	0.00	0.76	19.47	1.68								
Virtu Americas LLC	4.30	0.00	7.81	0.37	5.18	0.00	0.0000	-7.97	-0.1000	-0.50	-0.0998	-2.19	-0.0814
Instinet, LLC	4.07	0.00	6.80	0.29	5.04	0.00	0.0000	-11.50	-0.1000	-0.40	-0.1000	-6.51	-0.1000
Credit Suisse Crossfinder	4.06	0.00	8.37	0.50	4.65	0.00	0.0000	-24.28	-0.0989	-3.40	-0.0989	-48.94	-0.0989
Bats Trading Inc.	3.88	0.00	0.60	12.59	2.38	0.00	0.0000	-1.05	-0.0326	-37.33	-0.0326	-43.65	-0.0326

Material Aspects:

Nasdaq Execution Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. A portion of the orders routed to this venue were sent via Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway. Nasdaq has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Virtu ITG LLC POSIT:

POSIT is an alternative trading system owned and operated by Virtu ITG LLC. Virtu ITG LLC receives a commission on a per share basis for orders executed within POSIT.

IEX Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://iextrading.com/trading/fees/>

UBS Securities, LLC ATS:

No material relationship exists between Virtu ITG LLC and this venue.

Material Aspects:

UBS Securities, LLC ATS:

No material relationship exist between Virtu ITG LLC and this venue.

IEX Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://iextrading.com/trading/fees/>

Virtu ITG LLC POSIT:

POSIT is an alternative trading system owned and operated by Virtu ITG LLC. Virtu ITG LLC receives a commission on a per share basis for orders executed within POSIT.

Credit Suisse Crossfinder:

No material relationship exist between Virtu ITG LLC and this venue.

Virtu Americas LLC:

Virtu Financial, Inc., the parent company of Virtu Americas LLC completed the acquisition of Investment Technology Group, Inc. on March 1, 2019

Instinet, LLC:

No material relationship exist between Virtu ITG LLC and this venue.

J.P. Morgan Securities LLC:

No material relationship exist between Virtu ITG LLC and this venue.

Goldman Sachs & Co. LLC SIGMA X2:

No material relationship exist between Virtu ITG LLC and this venue.

BofA Securities, Inc.:

No material relationship exist between Virtu ITG LLC and this venue.

February 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

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 Marketable Limit 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)

Material Aspects:**March 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
100.00	8.33	10.73	29.76	51.18

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)
Virtu ITG LLC	14.17	90.54	25.59	1.49	6.73	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
Nasdaq Execution Services, LLC	11.93	0.00	1.72	32.93	3.80	0.00	0.0000	10.42	0.0595	209.29	0.0595	138.36	0.0595
Morgan Stanley & Co., LLC	7.03	0.00	1.28	21.46	1.00								
IEX Services, LLC	6.43	0.00	4.46	6.34	7.94	0.00	0.0000	-84.41	-0.0854	-24.70	-0.0854	-102.24	-0.0854
UBS Securities, LLC ATS	6.15	0.00	16.92	0.87	7.96	0.00	0.0000	-221.73	-0.0999	-22.67	-0.0999	-238.85	-0.0999
Virtu ITG LLC POSIT	5.96	5.83	5.74	0.77	9.05								
Bats Trading Inc.	4.57	0.00	1.37	11.08	2.20	0.00	0.0000	-2.41	-0.0326	-41.10	-0.0326	-41.59	-0.0326
NYSE Arca, Inc.	3.51	0.00	0.57	8.81	1.62	0.00	0.0000	-0.95	-0.0086	-10.09	-0.0086	-8.57	-0.0086
Credit Suisse Crossfinder	3.40	0.00	6.93	0.37	4.97	0.00	0.0000	-76.71	-0.0968	-14.41	-0.0968	-60.35	-0.0968
Barclays ATS	3.20	0.00	1.35	0.07	5.94	0.00	0.0000	-7.00	-0.1000	-2.30	-0.1000	-58.30	-0.1000

Material Aspects:

Nasdaq Execution Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. A portion of the orders routed to this venue were sent via Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway. Nasdaq has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://www.nasdaqtrader.com/Trader.aspx?id=PriceListTrading2>

Morgan Stanley & Co., LLC:

Virtu ITG LLC routes a portion of their market on close order flow to the Nasdaq, NYSE, Bats and Arca exchanges through Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway.

IEX Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://iextrading.com/trading/fees/>

UBS Securities, LLC ATS:

No material relationship exists between Virtu ITG LLC and this venue.

Virtu ITG LLC POSIT:

POSIT is an alternative trading system owned and operated by Virtu ITG LLC. Virtu ITG LLC receives a commission on a per share basis for orders executed within POSIT.

Bats Trading Inc.:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. A portion of the orders routed to this venue were sent via Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway. BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

NYSE Arca, Inc.:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. A portion of the orders routed to this venue were sent via Morgan Stanley Speedway ("MS Speedway"). Virtu ITG LLC may incur reduced execution costs when routing orders via MS Speedway. ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

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

Credit Suisse Crossfinder:

No material relationship exists between Virtu ITG LLC and this venue.

March 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
100.00	2.37	36.45	8.50	52.69

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 Marketable Limit 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)
UBS Securities, LLC ATS	10.08	0.00	13.98	3.82	8.84	0.00	0.0000	-3,140.27	-0.0999	-137.49	-0.0999	-883.01	-0.0999
Virtu ITG LLC POSIT	9.34	0.88	10.72	3.35	9.73								
Credit Suisse Crossfinder	9.31	0.00	12.48	3.45	8.48	0.00	0.0000	-1,548.02	-0.0968	-65.91	-0.0968	-359.90	-0.0968
IEX Services, LLC	7.93	0.00	7.54	8.90	8.41	0.00	0.0000	-1,522.68	-0.0854	-242.66	-0.0854	-1,168.55	-0.0854
Instinet, LLC	7.69	0.00	9.85	2.71	7.34	0.00	0.0000	-231.95	-0.1000	-13.00	-0.1000	-63.89	-0.1000
J.P. Morgan Securities LLC	7.46	0.00	9.34	2.48	7.31	0.00	0.0000	-827.82	-0.1000	-33.58	-0.1000	-141.15	-0.1000
Goldman Sachs & Co. LLC SIGMA X2	7.36	0.00	8.08	2.19	8.02	0.00	0.0000	-588.05	-0.1000	-38.68	-0.1000	-168.30	-0.1000
Barclays ATS	6.09	0.00	3.65	1.10	8.86	0.00	0.0000	-825.80	-0.1000	-15.00	-0.1000	-1,166.60	-0.1000
BIDS TRADING L.P.	5.68	0.00	4.32	1.30	7.58	0.00	0.0000	-469.13	-0.0340	-17.75	-0.0340	-86.67	-0.0340
National Financial Services LLC	5.29	0.00	3.83	1.15	7.21	0.00	0.0000	-329.49	-0.1000	-5.02	-0.1000	-53.25	-0.1000

Material Aspects:

UBS Securities, LLC ATS:

No material relationship exist between Virtu ITG LLC and this venue.

Virtu ITG LLC POSIT:

POSIT is an alternative trading system owned and operated by Virtu ITG LLC. Virtu ITG LLC receives a commission on a per share basis for orders executed within POSIT.

Credit Suisse Crossfinder:

No material relationship exist between Virtu ITG LLC and this venue.

IEX Services, LLC:

Virtu ITG LLC receives a cash payment or is charged a fee for order flow on a per shares basis. The per share cash payment or fee is calculated based upon a variety of factors including, but not limited to, orders size and whether an order provides or removes liquidity. IEXG has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://iextrading.com/trading/fees/>

Instinet, LLC:

No material relationship exist between Virtu ITG LLC and this venue.

J.P. Morgan Securities LLC:

No material relationship exist between Virtu ITG LLC and this venue.

Goldman Sachs & Co. LLC SIGMA X2:

No material relationship exist between Virtu ITG LLC and this venue.

Barclays ATS:

No material relationship exists between Virtu ITG LLC and this venue.

BIDS TRADING L.P.:

No material relationship exist between Virtu ITG LLC and this venue.

National Financial Services LLC:

This is Virtu ITG LLC's clearing broker.

March 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

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)

Material Aspects: