SCF SECURITIES, INC. - Held NMS Stocks and Options Order Routing Public Report Generated on Mon Jan 09 2023 06:43:50 GMT-5 EST

4th Quarter, 2022

October 2022

S&P 500 Stocks Summary

Total Non-Directed Non-Directed OrdersNon-Directed OrdersMarket Orders as % of Non-Directed OrdersTotal Market OrdersTotal MarketableOrders as % of Non-Directed OrdersNon-MarketableLimit Orders as % of Non-Directed Orders as % of Non-Directed Orders as % of Non-Directed OrdersOrdersas % of All OrdersTotal Market OrdersOrdersDirected OrdersTotal Non-Marketable Limit OrdersNon-Directed Orders Total Other OrdersNon-Directed Orders404100.0034785.89102.48

Venues

Venue - Non- directed Order Flow Non-Dire	Non-Directed ected Orders Orders(%)	d Market Orders	Market Or	Marketable Lin ders(%) Orders	mit Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketab Limit Orders(%		Other Orders	Net Payment Paid/Received for (%) Market Orders(US	Net Payment Paid/Received for Market Orders(cer D) per hundred share	ts Marketable Limit	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 share	Net Payment	Net Payment Paid/Received fo Other Orders(cer	nts
Citadel Securities								,		(//	-, por manarou omaro	o, 0.0.0.0(002)			por manarou on an e	o, e.m.c. e.a.e.e(ee2,	por manarou oma	
LLC(CDRG)	142	27.20	124	35.73	2	18.18	3	2.21	13	46.43	0	0	0	0	0	0	0	0
VIRTU Americas,																		
LLC(NITE)	94	18.01	78	22.48	6	54.55	2	1.47	8	28.57	0	0	0	0	0	0	0	0
C1 Fuggition																		
G1 Execution Services, LLC(ETMM)	92	17.62	89	25.65	3	18.18	1	0.74	0	0.00	0	0	0	0	0	0	0	0
Services, LLC(LTIVIIVI)	32	17.02	83	23.03	2	10.10	1	0.74	U	0.00	O	U	O	O	O	O	O	U
NASDAQ Execution																		
Services, LLC(NSDQ)	57	10.92	0	0.00	0	0.00	57	41.91	0	0.00	0	0	0	0	0	0	0	0
Jane Street Capital,																		
LLC(JNST)	55	10.54	51	14.70	1	9.09	3	2.21	0	0.00	0	0	0	0	0	0	0	0
New York Stock			_						_			_	_	_	_	_	_	_
Exchange(NYSE)	54	10.34	0	0.00	0	0.00	54	39.71	0	0.00	0	0	0	0	0	0	0	0
Cboe EDGX US Equities																		
Exchange(EDGX)	11	2.11	0	0.00	0	0.00	11	8.09	0	0.00	0	0	0	Λ	0	0	0	Ο
Members	11	2.11	O	0.00	Ü	0.00	11	0.03	O	0.00	O	·	O .	O .	·	O .	· ·	O
Exchange(MEMX)	5	0.96	0	0.00	0	0.00	5	3.68	0	0.00	0	0	0	0	0	0	0	0
UBS Securities,																		
LLC(UBSS)	5	0.96	2	0.58	0	0.00	0	0.00	3	10.71	0	0	0	0	0	0	0	0
Instinet																		
BlockCross(BLKX)	4	0.77	0	0.00	0	0.00	0	0.00	4	14.29	0	0	0	0	0	0	0	0

October 2022

Non-S&P 500 Stocks Summary

			Market Orders as %		Marketable Limit		Non-Marketabl	e	
<b>Total Non-Directed</b>	Non-Directed Orders	1	of Non-Directed	Total Marketable	Orders as % of No	n-	<b>Limit Orders as</b>	% of	Other Orders as % of
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	Limit Orders	<b>Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	Non-Directed O	rders Total Other Orders	<b>Non-Directed Orders</b>
634	100.00	538	84.86	31	1	.89	.6	7.26	19 3.00

Venues

Venue - Non- directed Order Flow Non-Dire	Non-Directe ected Orders Orders(%)	ed Market Order	s Market	Marketable t Orders(%) Orders	Limit Marketable Limit Orders(%)	Non-Marketable Limit Orders	e Non-Marke Limit Order		Other Orde	Net Payment Paid/Received fo rs(%) Market Orders(U	Net Payment Paid/Received for Market Orders(course) JSD) per hundred sha	ents Marketable Limit	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 share	<b>Net Payment</b>		nts
Citadel Securities LLC(CDRG)	214	24.77	193	35.94	10	34.48	3	1.12	8	25.81	0	0	0	0	0	0	0	0
VIRTU Americas,		,		55.5 .		<b>5</b> , <b>5</b>	· ·		· ·		•	•						· ·
LLC(NITE)	156	18.06	133	24.77	9	31.03	4	1.50	10	32.26	0	0	0	0	0	0	0	0
New York Stock Exchange(NYSE)	155	17.94	0	0.00	0	0.00	155	58.05	0	0.00	0	0	0	0	0	0	0	0
G1 Execution																		
Services, LLC(ETMM)  Jane Street Capital,	126	14.58	120	22.35	4	13.79	2	0.75	0	0.00	0	0	0	0	0	0	0	0
LLC(JNST) Cboe EDGX US	86	9.95	79	14.71	6	20.69	1	0.37	0	0.00	0	0	0	0	0	0	0	0
Equities Exchange(EDGX)	45	5.21	0	0.00	0	0.00	45	16.85	0	0.00	0	0	0	0	0	0	0	0
NASDAQ Execution																		
Services, LLC(NSDQ) Members	35	4.05	0	0.00	0	0.00	35	13.11	0	0.00	0	0	0	0	0	0	0	0
Exchange(MEMX)	19	2.20	0	0.00	0	0.00	19	7.12	0	0.00	0	0	0	0	0	0	0	0
Instinet	12	1 20	0	0.00	0	0.00	0	0.00	12	20 71	0	0	0	0	0	0	0	0
BlockCross(BLKX) UBS Securities,	12	1.39	U	0.00	U	0.00	U	0.00	12	38.71	U	U	U	U	U	U	U	U
LLC(UBSS)	8	0.93	7	1.30	0	0.00	0	0.00	1	3.23	0	0	0	0	0	0	0	0

October 2022

**Option Contracts** 

Summary

Total Non-Directed OrdersNon-Directed OrdersNon-Directed OrdersNon-MarketableOrdersNon-Directed OrdersNon-Directed OrdersNon-Directed OrdersNon-MarketableOrdersAs % of All OrdersTotal Market OrdersOrdersDirected OrdersTotal Non-Marketable Limit OrdersNon-Directed Orders Total Other OrdersNon-Directed Orders107100.00100.0012.1500.00

Venues

Venue - Non- directed Order Flow Non-Directed	Non-Directe Orders Orders(%)	ed Market Orders	Market Ordei	Marketable Limi rs(%) Orders	t Marketable Limit Orders(%)	Non-Marketable Limit Orders	e Non-Marketa Limit Orders		Other Orders(%)	Net Payment Paid/Received for Market Orders(US	Net Payment Paid/Received f Market Orders(c D) per hundred sha	ents Marketable Limit	Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	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(cent per hundred share	ts
Susquehanna Capital Group(SUSQ) Citadel Securities LLC(CDRG)	43 36	40.19 33.64	37 29	46.84 36.71	6 4	42.86 28.57	0	0.00 21.43		0.00	0	0 0	0	0	0	0 0	0	0
Wolverine Execution Services LLC(WEXX) Dash Financial Technologies LLC(DASH)	11 10	10.28 9.35	3	3.80 7.59	0	0.00 21.43	8	57.14 7.14		0.00	0	0	0	0	0	0 0	0	0
Morgan Stanley & Company LLC(MSCO)	7	6.54	4	5.06	1	7.14	2	14.29	0	0.00	0	0	0	0	0	0	0	0

Net Payment

Net Payment

Net Payment

Net Payment

November 2022

S&P 500 Stocks Summary

Market Orders as % **Marketable Limit** Non-Marketable Other Orders as % of Total Non-Directed Non-Directed Orders of Non-Directed Total Marketable Orders as % of Non-Limit Orders as % of as % of All Orders Total Market Orders Orders Limit Orders Directed Orders Total Non-Marketable Limit Orders Non-Directed Orders Total Other Orders Non-Directed Orders 100.00 88.10 0 0.00 41 9.38 11 2.52 437

Venues

Venue - Non-	Non-Directed	1		Marketable Limit	t	Non-Ma	arketable	Non-Marketable			Net Payment Paid/Received for	Net Payment Paid/Received for Market Orders(cent		Paid/Received for Marketable Limit Orders(cents per	Net Payment Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Net Payment Paid/Received for	Net Payment Paid/Received for Other Orders(cent	
directed Order Flow Non-Direct Citadel Securities	ted Orders Orders(%)	Market Orders	Market Orde	rs(%) Orders	Marketable Limit Orders(%)	Limit Or	rders	Limit Orders(%)	Other Orders	Other Orders(9	6) Market Orders(USD	) per hundred shares	) Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares	s) Other Orders(USD)	per hundred share	<b>:s)</b>
LLC(CDRG) New York Stock	172	26.42	163	42.34	0	0.00		5 1	.97	4	33.33	0	0	0	0	0	0	)	0
Exchange(NYSE) VIRTU Americas,	128	19.66	0	0.00	0	0.00	12	28 50	.39	0	0.00	0	0	0	0	0	0	)	0
LLC(NITE)	122	18.74	110	28.57	0	0.00		6 2	.36	6	50.00	0	0	0	0	0	0 (	)	0
NASDAQ Execution Services, LLC(NSDQ)	88	13.52	0	0.00	0	0.00	8	38 34	.65	0	0.00	0	0	0	0	0	0 (	)	0
G1 Execution Services, LLC(ETMM)	68	10.45	64	16.62	0	0.00		4 1	.57	0	0.00	0	0	0	0	0	0 (	)	0
Jane Street Capital, LLC(JNST) Cboe EDGX US	45	6.91	44	11.43	0	0.00		1 0	.39	0	0.00	0	0	0	0	0	0	)	0
Equities Exchange(EDGX) Members	15	2.30	0	0.00	0	0.00	1	15 5	.91	0	0.00	0	0	0	0	0	0	)	0
Exchange(MEMX) Two Sigma	6	0.92	0	0.00	0	0.00		6 2	.36	0	0.00	0	0	0	0	0	0	0	0
Securities, LLC(SOHO) UBS Securities,	3	0.46	2	0.52	0	0.00		1 0	.39	0	0.00	0	0	0	0	0	0	)	0
LLC(UBSS)	3	0.46	2	0.52	0	0.00		0 0	.00	1	8.33	0	0	0	0	0	0	)	0

November 2022

Non-S&P 500 Stocks Summary

Market Orders as % Of Non-Directed Orders of

Venues

Venue - Non- directed Order Flow Non- Citadel Securities	Non-Directe -Directed Orders Orders(%)	ed Market Orders	Market O	Marketable Lii orders(%) Orders	mit Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketabl Limit Orders(%)		Other Orders(%	Net Payment Paid/Received for Market Orders(US	Net Payment Paid/Received for Market Orders(cen D) per hundred share	ts Marketable Limit	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Limit Orders(cents	Net Payment Paid/Received for Other Orders(USD)	Net Payment Paid/Received for Other Orders(cent per hundred share	ts
LLC(CDRG)	269	22.72	230	30.91	28	33.33	10	2.94	1	6.25	0	0	0	0	0	0	0	0
VIRTU Americas,																		
LLC(NITE)	261	22.04	221	29.70	25	29.76	5	1.47	10	62.50	0	0	0	0	0	0	0	0
G1 Execution																		
Services, LLC(ETMM)	203	17.15	178	23.92	19	22.62	6	1.76	0	0.00	0	0	0	0	0	0	0	0
New York Stock																		
Exchange(NYSE)	128	10.81	0	0.00	0	0.00	128	37.65	0	0.00	0	0	0	0	0	0	0	0
Jane Street Capital,				40.00												_		_
LLC(JNST)	117	9.88	104	13.98	9	10.71	4	1.18	0	0.00	0	0	0	0	0	0	0	0
NASDAQ Execution																		
Services, LLC(NSDQ)	102	8.61	0	0.00	0	0.00	102	30.00	0	0.00	0	0	0	0	0	0	0	0
Cboe EDGX US																		
Equities																		
Exchange(EDGX)	50	4.22	0	0.00	0	0.00	50	14.71	0	0.00	0	0	0	0	0	0	0	0
NYSE					_							_	_	_	_	_	_	_
American(AMEX)	18	1.52	0	0.00	U	0.00	18	5.29	0	0.00	0	0	U	U	U	U	U	0
Members Exchange(MEMX)	15	1.27	0	0.00	0	0.00	15	4.41	0	0.00	0	0	0	0	0	n	0	Λ
Excitating Charles	13	1.47	U	0.00	U	0.00	13	7.71	J	0.00	U	O .	0	O .	· ·	O	· ·	J

Securities,	7	0.50	A	5.4	2	2 57	0	0.00	0	0.00	0	0	0	0	0	0
LLC(SOHO)	/	0.59	4 0.	54	3	3.57	U	0.00	0	0.00	0	U	0	0	0	0
November 2022 Option Contracts																
Summary		na-ul · · · ·	ne 9/	Na <sub>min</sub> atal II at the		Alou Adulu di										
Total Non-Directed Non-Directed Orders as % of A		Market Orders of Non-Directed Orders Orders 63		Marketable Limit Orders as % of Nor Directed Orders 4 4.	Total Non-Marketable Limit Orders											
Venues											Net Payment	Net Payment	Net Payment Paid/Received for	Net Payment	Net Payment Paid/Received for	
Venue - Non- directed Order Flow Non-Dire	Non-Directed	d Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Marketable Limit Orders(%)		Other Orders(	Net Payment Paid/Received for Market Orders(US	Paid/Received for	Paid/Received for nts Marketable Limit		Paid/Received for Non-Marketable Limit Orders(USD)	Non-Marketable Limit Orders(cents	Net Payment
Citadel Securities LLC(CDRG)	38	44.71	26 41.	27	2	100.00	10	50.00	0	0.00	0	0	0	0	0	0
Susquehanna Capital Group(SUSQ) Dash Financial	21	24.71	21 33.	33	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0
Technologies LLC(DASH)	14	16.47	10 15.	87	0	0.00	4 2	20.00	0	0.00	0	0	0	0	0	0
Wolverine Execution Services LLC(WEXX)	9	10.59	3 4.	76	0	0.00	6 3	30.00	0	0.00	0	0	0	0	0	0
Morgan Stanley & Company LLC(MSCO)	3	3.53	3 4.	76	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0
December 2022																
S&P 500 Stocks Summary																
Total Non-Directed Non-Directed Orders as % of A		Market Orders of Non-Directed Orders Orders		Marketable Limit Orders as % of Nor Directed Orders	ı- Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % Non-Directed Or		Other Orders as ers Non-Directed O								
627	100.00	567	90.43	18 2.	87	39	6.22	3	0.48							
										Net Payment	Net Payment Paid/Received for	Net Payment	Net Payment Paid/Received for Marketable Limit		Net Payment Paid/Received for Non-Marketable	
Venue - Non- directed Order Flow Non-Dire Citadel Securities		Market Orders		Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	Limit Orders(%)	Other Orders	Other Orders(		Paid/Received for	Paid/Received for nts Marketable Limit	Paid/Received for	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share	Net Payment Paid/Received for Solution Other Orders(USI
directed Order Flow Non-Dire			Market Orders(%)  196 34.  161 28.	<b>Orders</b> 57	Marketable Limit Orders(%)  6		<b>Limit Orders(%)</b> 9		Other Orders(*) 2 0	Paid/Received for	Paid/Received for Market Orders(cen	Paid/Received for nts Marketable Limit	Paid/Received for r Marketable Limit Orders(cents per	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents	Net Payment Paid/Received for
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE) G1 Execution Services, LLC(ETMM)	cted Orders Orders(%) 213	Market Orders 30.60	196 34.	<b>Orders</b> 57 40	Marketable Limit Orders(%)  6  7	Limit Orders 33.33	Limit Orders(%)  9  7	Other Orders 8.49	2	Paid/Received for Market Orders(US 40.00	Paid/Received for Market Orders(cen O) per hundred share	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0	Paid/Received for Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents per hundred share	Net Payment Paid/Received for Solution Other Orders(USE)
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST)	213 175	Market Orders 30.60 25.14	196 34. 161 28.	<b>Orders</b> 57 40 69	<ul><li>6</li><li>7</li></ul>	33.33 38.89	Limit Orders(%)  9  7	Other Orders 8.49 6.60	2	Paid/Received for Market Orders(US 40.00	Paid/Received for Market Orders(cent) per hundred share	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share	Net Payment Paid/Received for Solution Other Orders(USE)
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)	213 175 154	Market Orders 30.60 25.14 22.13	196 34. 161 28. 140 24. 62 10.	<b>Orders</b> 57 40 69	<ul><li>6</li><li>7</li></ul>	Limit Orders  33.33  38.89  27.78	Limit Orders(%)  9  7  9  4	Other Orders  8.49  6.60  8.49	2 0 0	Paid/Received for Market Orders(US 40.00 0.00	Paid/Received for Market Orders(cent) per hundred share	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share	Net Payment Paid/Received for Ses) Other Orders(USE)  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma	213 175 154 66	Market Orders 30.60 25.14 22.13 9.48	196 34.  161 28.  140 24.  62 10.  0 0.	<b>Orders</b> 57 40 69	<ul><li>6</li><li>7</li></ul>	Limit Orders  33.33  38.89  27.78  0.00	1 Limit Orders(%)  9  7  9  4  44	Other Orders  8.49  6.60  8.49  3.77	2 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00	Paid/Received for Market Orders(cent) per hundred share  0  0  0	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US	213 175 154 66 44	Market Orders  30.60  25.14  22.13  9.48  6.32	196 34.  161 28.  140 24.  62 10.  0 0.	<b>Orders</b> 57  40  69  93  00	<ul><li>6</li><li>7</li></ul>	27.78 0.00 0.00	Limit Orders(%)  9  7  9  4  44  27	0ther Orders  8.49  6.60  8.49  3.77  41.51	2 0 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(cent) per hundred share  0  0  0	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO)	213 175 154 66 44	Market Orders  30.60  25.14  22.13  9.48  6.32  3.88	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.	Orders  57  40  69  93  00	<ul><li>6</li><li>7</li></ul>	27.78 0.00 0.00	Limit Orders(%)  9  7  9  4  44  27  0	Other Orders  8.49  6.60  8.49  3.77  41.51	2 0 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00	Paid/Received for Market Orders(cent) per hundred share  0  0  0	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0  0  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet	213 175 154 66 44 27	Market Orders  30.60  25.14  22.13  9.48  6.32  3.88  0.72  0.57  0.43	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  2 0.	Orders  57  40  69  93  00  00  88  00  35	<ul><li>6</li><li>7</li></ul>	Limit Orders  33.33  38.89  27.78  0.00  0.00  0.00  0.00  0.00	Limit Orders(%)  9  7  9  4  44  27  0  4  0	0ther Orders  8.49  6.60  8.49  3.77  41.51  25.47  0.00  3.77  0.00	2 0 0 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Paid/Received for Market Orders(cent) per hundred share  0 0 0 0 0 0 0	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  0  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USE)  0  0  0  0  0  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)	213 175 154 66 44 27	Market Orders  30.60  25.14  22.13  9.48  6.32  3.88  0.72  0.57	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  2 0.	Orders  57  40  69  93  00  00  88	<ul><li>6</li><li>7</li></ul>	Limit Orders  33.33  38.89  27.78  0.00  0.00  0.00  0.00	Limit Orders(%)  9  7  9  4  44  27  0  4  0	Other Orders  8.49  6.60  8.49  3.77  41.51  25.47  0.00  3.77	2 0 0 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Paid/Received for Market Orders(cent) per hundred share  0 0 0 0 0 0 0	Paid/Received for nts Marketable Limit (s) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  0  0  0  0  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0  0  0  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)	213 175 154 66 44 27	Market Orders  30.60  25.14  22.13  9.48  6.32  3.88  0.72  0.57  0.43	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  2 0.	Orders  57  40  69  93  00  00  88  00  35	<ul><li>6</li><li>7</li></ul>	Limit Orders  33.33  38.89  27.78  0.00  0.00  0.00  0.00  0.00	Limit Orders(%)  9  7  9  4  44  27  0  4  0	0ther Orders  8.49  6.60  8.49  3.77  41.51  25.47  0.00  3.77  0.00	2 0 0 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Paid/Received for Market Orders(cent) per hundred share  0 0 0 0 0 0 0	Paid/Received for nts Marketable Limit es) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  0  0  0  0  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0  0  0  0
directed Order Flow Non-Directiadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)	213 175 154 66 44 27	Market Orders  30.60  25.14  22.13  9.48  6.32  3.88  0.72  0.57  0.43	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  0 0.  2 0.  0 0.	Orders  57  40  69  93  00  00  88  00  35	<ul><li>6</li><li>7</li></ul>	Limit Orders  33.33  38.89  27.78  0.00  0.00  0.00  0.00  0.00	Limit Orders(%)  9  7  9  4  27  0  4  0  0	0ther Orders  8.49  6.60  8.49  3.77  41.51  25.47  0.00  3.77  0.00	2 0 0 0 0 0	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Paid/Received for Market Orders(cent) per hundred share  0 0 0 0 0 0 0	Paid/Received for nts Marketable Limit es) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  0  0  0  0  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0  0  0  0
directed Order Flow Non-Directed Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)  December 2022  Non-S&P 500 Stocks Summary  Total Non-Directed Non-Directed	213 175 154 66 44 27 5 4 3 2	Market Orders  30.60 25.14  22.13 9.48 6.32 3.88  0.72 0.57 0.43 0.29  Market Orders a of Non-Directed Orders	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  0 0.  2 0.  0 0.  2 0.  0 0.  2 0.  1 Total Marketable Limit Orders	Orders  57  40  69  93  00  88  00  35  00  Marketable Limit	Total Non-Marketable Limit Orders	Section   Color   Co	Limit Orders(%)  9  7  9  4  27  0  4  0  0	Other Orders  8.49  3.77  41.51  25.47  0.00  3.77  0.00  0.00  Other Orders as Non-Directed O	2 0 0 0 0 0 1 2	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Paid/Received for Market Orders(cent) per hundred share  0 0 0 0 0 0 0	Paid/Received for nts Marketable Limit es) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  0  0  0  0  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0  0  0  0
directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)  December 2022  Non-S&P 500 Stocks Summary  Total Non-Directed Orders  Non-Directed Orders  Non-Directed Orders	cted Orders Orders(%)  213  175  154  66  44  27  5  4  3  2	Market Orders  30.60 25.14  22.13 9.48 6.32 3.88  0.72 0.57 0.43 0.29  Market Orders a of Non-Directed Orders	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  0 0.  2 0.  0 0.  2 0.  0 0.  2 0.  1 Total Marketable Limit Orders	Orders  57  40  69  93  00  88  00  35  00  Marketable Limit Orders as % of Nor Directed Orders	Total Non-Marketable Limit Orders	Limit Orders  33.33  38.89  27.78  0.00  0.00  0.00  0.00  0.00  0.00  Non-Marketable Limit Orders as 9 Non-Directed Or	Limit Orders(%)  9  7  9  4  27  0  4  0  0  of ders Total Other Ord	Other Orders  8.49  3.77  41.51  25.47  0.00  3.77  0.00  0.00  Other Orders as Non-Directed O	2 0 0 0 0 0 0 1 2	Paid/Received for Market Orders(US 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Paid/Received for Market Orders(cent) per hundred share  0 0 0 0 0 0 0	Paid/Received for nts Marketable Limit es) Orders(USD)	Paid/Received for Marketable Limit Orders(cents per hundred shares)  0  0  0	Paid/Received for Non-Marketable Limit Orders(USD)	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  0  0  0  0  0  0  0  0	Net Payment Paid/Received for Ses) Other Orders(USD  0  0  0  0  0  0
directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)  December 2022  Non-S&P 500 Stocks Summary  Total Non-Directed Orders as % of A 1,042  Venues	cted Orders Orders(%)  213  175  154  66  44  27  5  4  3  2  Non-Directed Market 100.00	Market Orders  30.60 25.14  22.13 9.48 6.32 3.88  0.72 0.57 0.43 0.29  Market Orders of Non-Directed Orders 799	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  0 0.  2 0.  0 0.  2 0.  0 0.  2 0.  0 0.  4	Orders  57  40  69  93  00  88  00  35  00  Marketable Limit Orders as % of Nor Directed Orders 89  8.	Total Non-Marketable Limit Orders	Non-Marketable   Non-	Limit Orders(%)  9  7  9  4  27  0  4  0  0  Non-Marketable	Other Orders  8.49  6.60  8.49  3.77  41.51  25.47  0.00  0.00  Other Orders as Non-Directed Orders  8.49	2 0 0 0 0 0 1 2 s% of Orders 3.17	Paid/Received for Market Orders(US  40.00  0.00  0.00  0.00  0.00  0.00  0.00  40.00  Net Payment Paid/Received for Market Orders(US	Paid/Received for Market Orders(centro) per hundred share  Net Payment Paid/Received for Market Orders(centro)  Net Payment Paid/Received for Market Orders(centro)	Paid/Received for Marketable Limit Orders (USD)  Net Payment Paid/Received for Marketable Limit  Marketable Limit	Paid/Received for Marketable Limit Orders(cents per hundred shares)  Net Payment Paid/Received for O  Net Payment Paid/Received for Marketable Limit Orders(cents per	Paid/Received for Non-Marketable Limit Orders(USD)  Net Payment O  Net Payment O  Non-Marketable	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  Net Payment O O O O O O O O O O O O O O O O O O O	Net Payment Paid/Received for Ses) Other Orders(USD  O  O  O  O  O  O  O  O  O  O  O  O  O
directed Order Flow Citadel Securities LLC(CDRG) VIRTU Americas, LLC(NITE)  G1 Execution Services, LLC(ETMM) Jane Street Capital, LLC(JNST) New York Stock Exchange(NYSE)  NASDAQ Execution Services, LLC(NSDQ) Two Sigma Securities, LLC(SOHO) Cboe EDGX US Equities Exchange(EDGX) UBS Securities, LLC(UBSS) Instinet BlockCross(BLKX)  December 2022  Non-S&P 500 Stocks Summary  Total Non-Directed Orders as % of A	cted Orders Orders(%)  213  175  154  66  44  27  5  4  3  2  Non-Directed Market 100.00	Market Orders  30.60 25.14  22.13 9.48 6.32 3.88  0.72 0.57 0.43 0.29  Market Orders of Non-Directed Orders 799	196 34.  161 28.  140 24.  62 10.  0 0.  5 0.  0 0.  2 0.  0 0.  2 0.  0 0.  2 0.  0 0.  4	Orders  57  40  69  93  00  88  00  35  00  Marketable Limit Orders as % of Nor Directed Orders  89  8.  Marketable Limit Orders	Total Non-Marketable Limit Orders	Non-Marketable   Limit Orders as 9   Non-Directed Or 121   1	Limit Orders(%)  9  7  9  4  44  27  0  4  0  0  Non-Marketable Limit Orders(%)	Other Orders  8.49  6.60  8.49  3.77  41.51  25.47  0.00  0.00  Other Orders as Non-Directed Orders  8.49	2 0 0 0 0 0 1 2 Other Orders(	Paid/Received for Market Orders(US  40.00  0.00  0.00  0.00  0.00  0.00  0.00  40.00  Net Payment Paid/Received for Market Orders(US	Paid/Received for Market Orders(centro) per hundred share  O  O  O  O  O  O  O  O  O  O  O  O  O	Paid/Received for Marketable Limit Orders (USD)  Net Payment Paid/Received for Marketable Limit  Marketable Limit	Paid/Received for Marketable Limit Orders(cents per hundred shares)   Net Payment Paid/Received for Marketable Limit  Net Payment Paid/Received for Marketable Limit	Paid/Received for Non-Marketable Limit Orders(USD)  O  O  O  O  O  O  O  O  O  O  O  O  O	Paid/Received for Non-Marketable Limit Orders(cents per hundred share)  Net Payment O O O O O O O O O O O O O O O O O O O	Net Payment Paid/Received for Paid/Received for Other Orders(USD O O O O O O O O O O O O O O O O O O O

G1 Execution																		
Services, LLC(ETMM)	226	17.16	197	24.66	26	27.66	3	0.79	0	0.00	0	0	0	0	0	0	0	0
New York Stock																		
Exchange(NYSE)	117	8.88	0	0.00	4	4.26	113	29.66	0	0.00	0	0	0	0	0	0	0	0
NASDAQ Execution																		
Services, LLC(NSDQ)	103	7.82	0	0.00	0	0.00	103	27.03	0	0.00	0	0	0	0	0	0	0	0
Jane Street Capital,																		
LLC(JNST)	101	7.67	87	10.89	14	14.89	0	0.00	0	0.00	0	0	0	0	0	0	0	0
Cboe EDGX US																		
Equities																		
Exchange(EDGX)	78	5.92	0	0.00	0	0.00	78	20.47	0	0.00	0	0	0	0	0	0	0	0
NYSE Arca(ARCA)	40	3.04	0	0.00	0	0.00	40	10.50	0	0.00	0	0	0	0	0	0	0	0
Members																		
Exchange(MEMX)	27	2.05	0	0.00	0	0.00	27	7.09	0	0.00	0	0	0	0	0	0	0	0
Two Sigma																		
Securities,																		
LLC(SOHO)	13	0.99	12	1.50	0	0.00	0	0.00	1	2.33	0	0	0	0	0	0	0	0

December 2022

Option Contracts
Summary

Total Non-Directed OrdersNon-Directed OrdersMarket Orders as % of Non-Directed OrdersMarket Orders as % of Non-Directed OrdersNon-Marketable Limit Orders as % of Non-Directed Orders as % of Non-Directed Orders as % of Non-Directed OrdersOther Orders as % of Non-Directed Orders as % of Non-Directed Orders as % of Non-Directed Orders Total Other Orders87100.006574.7166.901618.3900.00

Venues

Venue - Non- directed Order Flow Non-Dire Citadel Securities	Non-Direc ected Orders Orders(%)		ders Mark	Marketab et Orders(%) Orders	le Limit Marketable Limit Orders(%)	Non-Marketable Limit Orders	Non-Mark Limit Orde		Other Orders(%	Net Payment Paid/Received for 6) Market Orders(US	Net Payment Paid/Received for Market Orders(ce	nts Marketable Limit	Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)	Net Payment Paid/Received for Non-Marketable Limit Orders(USD)	Limit Orders(cents	=	Net Payment Paid/Received for Other Orders(cents per hundred share	ts
LLC(CDRG)	44	43.56	32	49.23	0	0.00	12	35.29	0	0.00	0	0	0	0	0	0	0	0
Susquehanna Capital Group(SUSQ)	24	23.76	22	33.85	2	100.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0
Wolverine Execution Services LLC(WEXX) Dash Financial	16	15.84	2	3.08	0	0.00	14	41.18	0	0.00	0	0	0	0	0	0	0	0
Technologies LLC(DASH)	12	11.88	7	10.77	0	0.00	5	14.71	0	0.00	0	0	0	0	0	0	0	0
Morgan Stanley & Company LLC(MSCO)	5	4.95	2	3.08	0	0.00	3	8.82	0	0.00	0	0	0	0	0	0	0	0