January 2021

# S&P 500 Stocks Summary

		Market Orders as %			
Total Non-Directed	Non-Directed Orders		of Non-Directed	Total Marketable	
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	Limit Orders	
78	100.00	67	85.90	:	3

Venue - Non- directed Order Flow Citadel Securities	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
LLC(CDRG)	42	53.85	38	56.72
VIRTU Americas LLC(NITE)	20	25.64	17	25.37
JANE STREET CAPITAL, LLC(JNST)	5	6.41	5	7.46
G1 Execution Services, LLC(ETMM)	3	3.85	3	4.48
NASDAQ Execution Services, LLC(NSDQ) Two Sigma	3	3.85	0	0.00
Securities, LLC(SOHO) Cboe EDGX US	3	3.85	3	4.48
Equities Exchange(EDGX)	1	1.28	0	0.00
UBS Securities, LLC(UBSS)	1	1.28	1	1.49

# January 2021

# Non-S&P 500 Stocks Summary

			Market Orders as %	
Total Non-Directed	Non-Directed Orders		of Non-Directed	Total Marketable
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	<b>Limit Orders</b>
222	100.00	110	49.55	32

Venue - Non- directed Order Flow Citadel Securities	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
LLC(CDRG) VIRTU Americas	118	51.30	60	54.05
LLC(NITE)	73	31.74	36	32.43
JANE STREET CAPITAL, LLC(JNST)	12	5.22	7	6.31
G1 Execution Services, LLC(ETMM) Instinet	6	2.61	3	2.70
BlockCross(BLKX) Cboe EDGX US Equities	5	2.17	0	0.00
Exchange(EDGX) Two Sigma	5	2.17	0	0.00
Securities, LLC(SOHO)	5	2.17	4	3.60
NASDAQ Execution Services, LLC(NSDQ)	4	1.74	0	0.00
New York Stock Exchange(NYSE)	1	0.43	0	0.00
National Financial Services LLC(XSTM)	1	0.43	1	0.90

# January 2021

Option Contracts Summary

			Market Orders as %	, 0	
<b>Total Non-Directed</b>	Non-Directed Orders		of Non-Directed	<b>Total Marketable</b>	
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	Limit Orders	
(	0.00	0	0.0	00	0

Venues

Venue - Non-Directed

directed Order Flow Non-Directed Orders Orders(%) Market Orders Market Orders(%)

February 2021

S&P 500 Stocks Summary

			Market Orders as %	
<b>Total Non-Directed</b>	<b>Non-Directed Orders</b>		of Non-Directed	<b>Total Marketable</b>
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	<b>Limit Orders</b>
66	100.00	61	92.42	0

Venue - Non- directed Order Flow	Non-Directed Non-Directed Orders Orders(%)	Market Orders	Ma	rket Orders(%)
Citadel Securities LLC(CDRG) New York Stock	35	42.17	35	57.38
Exchange(NYSE) VIRTU Americas	16	19.28	0	0.00
LLC(NITE)	14	16.87	12	19.67
JANE STREET CAPITAL, LLC(JNST)	7	8.43	7	11.48

G1 Execution Services, LLC(ETMM) Cboe EDGX US	3	3.61	3	4.92
Equities Exchange(EDGX)	2	2.41	0	0.00
NASDAQ Execution Services, LLC(NSDQ) Two Sigma	2	2.41	0	0.00
Securities, LLC(SOHO) UBS Securities,	2	2.41	2	3.28
LLC(UBSS)	2	2.41	2	3.28

February 2021

Non-S&P 500 Stocks Summary

Total Non-Directed	Non-Directed Orders		Market Orders as % of Non-Directed	Total Marketable
Orders	as % of All Orders	<b>Total Market Orders</b>		Limit Orders
305	100.00	205	67.21	36

Venue - Non-	N	Ion-Directed		
directed Order Flow	Non-Directed Orders O	Orders(%)	Market Orders	Market Orders(%)
Citadel Securities				
LLC(CDRG)	140	44.44	107	52.20
VIRTU Americas				
LLC(NITE)	89	28.25	50	24.39
JANE STREET				
CAPITAL, LLC(JNST)	22	6.98	21	10.24
UBS Securities,				
LLC(UBSS)	15	4.76	11	5.37
Two Sigma				
Securities,				
LLC(SOHO)	12	3.81	8	3.90
, ,				

G1 Execution Services, LLC(ETMM) Cboe EDGX US Equities	11	3.49	8	3.90
Exchange(EDGX)	10	3.17	0	0.00
NASDAQ Execution Services, LLC(NSDQ)	8	2.54	0	0.00
Instinet BlockCross(BLKX) NYSE	6	1.90	0	0.00
American(AMEX)	2	0.63	0	0.00

February 2021

Option Contracts Summary

			Market Orders as %		
<b>Total Non-Directed</b>	Non-Directed Orders		of Non-Directed	<b>Total Marketable</b>	
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	<b>Limit Orders</b>	
	1 100.00	1	100.00	)	0

Venues

Venue - Non-	Non-Directe	d		
directed Order Flow	Non-Directed Orders Orders(%)	<b>Market Orders</b>	Mark	et Orders(%)
<b>Citadel Securities</b>				
LLC(CDRG)	1	100.00	1	100.00

**March 2021** 

S&P 500 Stocks Summary

			Market Orders as %	
<b>Total Non-Directed</b>	Non-Directed Orders		of Non-Directed	Total Marketable
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	Limit Orders
69	100.00	65	94.20	0

#### Venues

Venue - Non- directed Order Flow Citadel Securities	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
LLC(CDRG) VIRTU Americas	28	50.00	28	53.85
LLC(NITE)	11	19.64	10	19.23
JANE STREET	9	16.07	9	17 21
CAPITAL, LLC(JNST) UBS Securities,	9	16.07	9	17.31
LLC(UBSS) Two Sigma	3	5.36	3	5.77
Securities, LLC(SOHO)	2	3.57	2	3.85
Cboe EDGX US Equities				
Exchange(EDGX)	1	1.79	0	0.00
NASDAQ Execution				
Services, LLC(NSDQ) New York Stock	1	1.79	0	0.00
Exchange(NYSE)	1	1.79	0	0.00

March 2021

Non-S&P 500 Stocks Summary

				Market Orders as %		
<b>Total Non-Direct</b>	ed	<b>Non-Directed Orders</b>		of Non-Directed	<b>Total Marketable</b>	
Orders		as % of All Orders	<b>Total Market Orders</b>	Orders	<b>Limit Orders</b>	
	230	100.00	139	60.4	3	18

Venue - Non-		Non-Directed		
directed Order Flow	<b>Non-Directed Orders</b>	Orders(%)	Market Orders	Market Orders(%)
Citadel Securities				
LLC(CDRG)	97	44.91	60	49.59
VIRTU Americas				
LLC(NITE)	52	24.07	34	28.10
LANG CERSET				
JANE STREET	19	8.80	18	14.00
CAPITAL, LLC(JNST) Two Sigma	19	8.80	18	14.88
Securities,				
LLC(SOHO)	16	7.41	3	2.48
110(30110)	10	7.41	3	2.40
NASDAQ Execution				
Services, LLC(NSDQ)	15	6.94	0	0.00
Cboe EDGX US				
Equities				
Exchange(EDGX)	8	3.70	0	0.00
UBS Securities,				
LLC(UBSS)	5	2.31	4	3.31
G1 Execution	_			
Services, LLC(ETMM)	3	1.39	2	1.65
Instinet	4	2.45	•	2.22
BlockCross(BLKX)	1	0.46	0	0.00

HIGHTOWER SECURITIES, LLC - Held NMS
Stocks and Options Order Routing Public
Report
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1st Quarter, 2021

Marketable Limit
Orders as % of NonDirected Orders Total Non-Marketable Limit Orders

3.85

Non-Marketable Limit Orders as % of Non-Directed Orders 4 5.13

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
	3 1	.00.00		0
	0	0.00		0
	0	0.00		0
	0	0.00		0
	0	0.00		3
	0	0.00		0
	0	0.00		1
	0	0.00		0

Marketable Limit Orders as % of Non-Directed Orders

14.41

**Total Non-Marketable Limit Orders** 

Non-Marketable Limit Orders as % of Non-Directed Orders 10 4.50

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
17		53.13		0
7		21.88		2
5		15.63		0
3		9.38		0
O		0.00		0
O		0.00		5
C		0.00		0
O		0.00		4
C		0.00		1
O		0.00		0

Marketable Limit		Non-Ma	rketable
Orders as % of Non-		Limit Orders as % of	
<b>Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	Non-Dire	ected Orders
0.00		0	0.00

Marketable Limit		Non-Marketable
Orders	Marketable Limit Orders(%)	Limit Orders

<b>Marketable Limit</b>		Non-Marketable	
Orders as % of Non-		Limit Orders as %	6 of
<b>Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	Non-Directed Or	ders
0.00		3	4.55

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
(	0	0.00	0
(	0	0.00	16
(	0	0.00	0
(	0	0.00	0

0	0.00	0
0	0.00	2
0	0.00	2
0	0.00	0
0	0.00	0

Marketable Limit		Non-Ma	arketable
Orders as % of Non-		Limit Orders as % of	
<b>Directed Orders</b>	Total Non-Marketable Limit Orders	Non-Dir	ected Orders
11.80		19	6.23

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
17		47.22		1
10		27.78		1
1		2.78		0
4		11.11		0
2		5.56		1

2	5.56	0
0	0.00	10
0	0.00	8
0	0.00	0
0	0.00	2

Marketable Limit		Non-Marketable		
Orders as % of Non-		Limit Orders as % of		
<b>Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	Non-Directed Orders		
0.00		0	0.00	

Marketable Limit Orders Marketable Limit Orders(%)		Non-Marketable Limit Orders	
	0	0.00	0

Marketable Limit		Non-Marketable		
Orders as % of Non-		Limit Orders as % of		
Directed Orders Total Non-Marketable Limit Orders		Non-Dir	ected Orders	
0.00		3	4.35	

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	0
	0	0.00	1
	0	0.00	1
	0	0.00	1

Marketable Limit
Orders as % of NonDirected Orders Total Non-Marketable Limit Orders

Non-Marketable Limit Orders as % of Non-Directed Orders 22 9.57

7.83

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
13		72.22	2	
3		16.67	0	
1		5.56	0	
0		0.00	0	
0		0.00	15	
0		0.00	8	
0		0.00	0	
1		5.56	0	
0		0.00	0	

Other Orders as % of Total Other Orders Non-Directed Orders 4 5.13

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(USI	Net Payment Paid/Received for Market Orders(cen D) per hundred share	
0.00		1 2	5.00	0	0
0.00		3 7	5.00	0	0
0.00		0	0.00	0	0
0.00		0	0.00	0	0
75.00		0	0.00	0	0
0.00		0	0.00	0	0
25.00		0	0.00	0	0
0.00		0	0.00	0	0

Other Orders as % of Total Other Orders
Non-Directed Orders
70 31.53

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)
0.00	41	54.67	0	0
16.67	28	37.33	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	5	6.67	0	0
41.67	0	0.00	0	0
0.00	1	1.33	0	0
33.33	0	0.00	0	0
8.33	0	0.00	0	0
0.00	0	0.00	0	0

Total Other Orders S % of Non-Directed Orders 0 0.00

				Net Payment
			Net Payment	Paid/Received for
Non-Marketable			Paid/Received for	<b>Market Orders(cents</b>
Limit Orders(%)	Other Orders	Other Orders(%)	Market Orders(USD)	per hundred shares)

Other Orders as % of Total Other Orders
Non-Directed Orders
2 3.03

Non-Marketable Limit Orders(%)	Other Orders	Other Orde	rs(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cer per hundred share	nts
0.00	1	0	0.00	(	)	0
80.00	1	0	0.00	C	)	0
0.00	1	2	100.00	(	)	0
0.00	1	0	0.00	C	)	0

0.00	0	0.00	0	0
10.00	0	0.00	0	0
10.00	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0

Total Other Orders

45
Other Orders as % of Non-Directed Orders
14.75

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)
4.35	15	29.41	0	0
4.35	28	54.90	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
4.35	1	1.96	0	0

0.00	1	1.96	0	0
43.48	0	0.00	0	0
34.78	0	0.00	0	0
0.00	6	11.76	0	0
8.70	0	0.00	0	0

Other Orders as % of Total Other Orders Non-Directed Orders

0 0.00

Non-Marketable Limit Orders(%)	Other Orders	Other (		Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
0.00	)	0	0.00	0	0

Other Orders as % of Total Other Orders
Non-Directed Orders
1 1.45

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%)	Net Payment Paid/Received for Market Orders(U	Net Payment Paid/Received for Market Orders(cei SD) per hundred share	nts
0.00		0	0.00	0	0
0.00		1 10	00.00	0	0
0.00		0	0.00	0	0
0.00		0	0.00	0	0
0.00		0	0.00	0	0
33.33		0	0.00	0	0
33.33		0	0.00	0	0
33.33		0	0.00	0	0

Other Orders as % of Total Other Orders
Non-Directed Orders
51 22.17

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)
8.00	22	42.31	0	0
0.00	15	28.85	0	0
0.00	0	0.00	0	0
0.00	13	25.00	0	0
60.00	0	0.00	0	0
32.00	0	0.00	0	0
0.00	1	1.92	0	0
0.00	0	0.00	0	0
0.00	1	1.92	0	0

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 fo Other Orders(USI	
(	0	0		0		0	0
(	0	0		0		0	0
(	0	0		0		0	0
(	0	0		0		0	0
(	0	0		0		0	0
1	0	0		0		0	0
(	0	0		0		0	0
(	0	0		0		0	0

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 share	Net Payment Paid/Received for s) Other Orders(USD)	
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

	Net Payment		Net Payment	
Net Payment	Paid/Received for	Net Payment	Paid/Received for	
Paid/Received for	Marketable Limit	Paid/Received for	Non-Marketable	Net Payment
Marketable Limit	Orders(cents per	Non-Marketable	Limit Orders(cents	Paid/Received for
Orders(USD)	hundred shares)	Limit Orders(USD)	per hundred shares)	Other Orders(USD)

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)	
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

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)	
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

U		U	U	U	U
0		0	0	0	0
0	1	0	0	0	0
0		0	0	0	0
0	) 	0	0	0	0

**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) Other Orders(USD)

**Net Payment** Paid/Received for

0

0

0

0

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 share	Net Payment Paid/Received for s) Other Orders(USD)	
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

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)	
(	)	0		0	0		0
(	0	0		0	0		0
(	)	0		0	0		0
(	0	0		0	0		0
(	ס	0		0	0		0
(	0	0		0	0		0
(	0	0		0	0		0
,	n	0		0	0		0
(	0	0		0	0		0
(	0	0		0	0		0

Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)

Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)

Net Payment
Paid/Received for
Other Orders(cents
per hundred shares)