

October 2022

S&P 500 Stocks  
Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders	
	40	100.00	28	70.00	5

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Citadel Securities LLC(CDRG)	11	23.91	8	28.57
G1 Execution Services, LLC(ETMM)	10	21.74	9	32.14
VIRTU Americas, LLC(NITE)	8	17.39	7	25.00
NASDAQ Execution Services, LLC(NSDQ)	7	15.22	0	0.00
Jane Street Capital, LLC(JNST)	4	8.70	3	10.71
New York Stock Exchange(NYSE)	4	8.70	0	0.00
Members Exchange(MEMX)	1	2.17	0	0.00
Two Sigma Securities, LLC(SOHO)	1	2.17	1	3.57

October 2022

Non-S&P 500 Stocks  
Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
81	100.00	56	69.14	13

Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Citadel Securities LLC(CDRG)	28	26.42	23	41.07
G1 Execution Services, LLC(ETMM)	16	15.09	16	28.57
VIRTU Americas, LLC(NITE)	16	15.09	12	21.43
NYSE Arca(ARCA)	14	13.21	0	0.00
New York Stock Exchange(NYSE)	9	8.49	0	0.00
Jane Street Capital, LLC(JNST)	6	5.66	5	8.93
NASDAQ Execution Services, LLC(NSDQ)	6	5.66	0	0.00
Cboe EDGX US Equities Exchange(EDGX)	4	3.77	0	0.00
Members Exchange(MEMX)	4	3.77	0	0.00
Cboe BZX U.S. Equities Exchange(BATS)	2	1.89	0	0.00

October 2022

Option Contracts

## Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
16	100.00	16	100.00	0

## Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Citadel Securities LLC(CDRG)	9	56.25	9	56.25
Susquehanna Capital Group(SUSQ)	6	37.50	6	37.50
Dash Financial Technologies LLC(DASH)	1	6.25	1	6.25

## November 2022

### S&P 500 Stocks Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
41	100.00	33	80.49	3

## Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
VIRTU Americas, LLC(NITE)	12	26.09	10	30.30
Citadel Securities LLC(CDRG)	10	21.74	10	30.30

<b>G1 Execution Services, LLC(ETMM)</b>	7	15.22	7	21.21
<b>Jane Street Capital, LLC(JNST)</b>	6	13.04	5	15.15
<b>Cboe EDGX US Equities Exchange(EDGX)</b>	4	8.70	0	0.00
<b>NASDAQ Execution Services, LLC(NSDQ)</b>	3	6.52	0	0.00
<b>New York Stock Exchange(NYSE)</b>	3	6.52	0	0.00
<b>UBS Securities, LLC(UBSS)</b>	1	2.17	1	3.03

#### November 2022

#### Non-S&P 500 Stocks Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
56	100.00	43	76.79	8

#### Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
<b>VIRTU Americas, LLC(NITE)</b>	16	21.92	15	34.88
<b>Citadel Securities LLC(CDRG)</b>	15	20.55	11	25.58
<b>New York Stock Exchange(NYSE)</b>	11	15.07	0	0.00
<b>G1 Execution Services, LLC(ETMM)</b>	10	13.70	9	20.93
<b>Jane Street Capital, LLC(JNST)</b>	9	12.33	7	16.28

<b>Cboe EDGX US</b>				
<b>Equities</b>				
<b>Exchange(EDGX)</b>	6	8.22	0	0.00
<b>Instinet</b>				
<b>BlockCross(BLKX)</b>	4	5.48	0	0.00
<b>NASDAQ Execution</b>				
<b>Services, LLC(NSDQ)</b>	1	1.37	0	0.00
<b>Two Sigma</b>				
<b>Securities,</b>				
<b>LLC(SOHO)</b>	1	1.37	1	2.33

**November 2022**

**Option Contracts  
Summary**

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

**Venues**

<b>Venue - Non- directed Order Flow</b>	<b>Non-Directed Orders</b>	<b>Non-Directed Orders(%)</b>	<b>Market Orders</b>	<b>Market Orders(%)</b>
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**December 2022**

**S&P 500 Stocks  
Summary**

<b>Total Non-Directed Orders</b>	<b>Non-Directed Orders as % of All Orders</b>	<b>Total Market Orders</b>	<b>Market Orders as % of Non-Directed Orders</b>	<b>Total Marketable Limit Orders</b>
32	100.00	23	71.88	2

**Venues**

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
NASDAQ Execution Services, LLC(NSDQ)	17	35.42	0	0.00
G1 Execution Services, LLC(ETMM)	9	18.75	8	34.78
VIRTU Americas, LLC(NITE)	8	16.67	8	34.78
Citadel Securities LLC(CDRG)	7	14.58	5	21.74
Cboe EDGX US Equities Exchange(EDGX)	3	6.25	0	0.00
Jane Street Capital, LLC(JNST)	2	4.17	2	8.70
New York Stock Exchange(NYSE)	2	4.17	0	0.00

**December 2022**

**Non-S&P 500 Stocks Summary**

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
146	100.00	132	90.41	8

**Venues**

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Citadel Securities LLC(CDRG)	52	28.73	49	37.12

<b>G1 Execution Services, LLC(ETMM)</b>	36	19.89	34	25.76
<b>VIRTU Americas, LLC(NITE)</b>	33	18.23	33	25.00
<b>New York Stock Exchange(NYSE)</b>	23	12.71	0	0.00
<b>Jane Street Capital, LLC(JNST)</b>	15	8.29	14	10.61
<b>NYSE Arca(ARCA)</b>	11	6.08	0	0.00
<b>NASDAQ Execution Services, LLC(NSDQ)</b>	4	2.21	0	0.00
<b>Cboe EDGX US Equities Exchange(EDGX)</b>	3	1.66	0	0.00
<b>INTL Trading, Inc.(INTL)</b>	2	1.10	2	1.52
<b>Instinet BlockCross(BLKX)</b>	1	0.55	0	0.00

## December 2022

### Option Contracts Summary

Total Non-Directed Orders	Non-Directed Orders as % of All Orders	Total Market Orders	Market Orders as % of Non-Directed Orders	Total Marketable Limit Orders
0	0.00	0	0.00	0

### Venues

Venue - Non-directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
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SWBC INVESTMENT SERVICES, LLC - Held NMS  
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 5 EST

4th Quarter, 2022

Marketable Limit Orders as % of Non- Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders
12.50	6	15.00

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders
1	20.00	1
1	20.00	0
0	0.00	1
3	60.00	4
0	0.00	1
0	0.00	4
0	0.00	1
0	0.00	0



<b>Marketable Limit Orders as % of Non- Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	<b>Non-Marketable Limit Orders as % of Non-Directed Orders</b>
16.05		12
		14.81

<b>Marketable Limit Orders</b>	<b>Marketable Limit Orders(%)</b>	<b>Non-Marketable Limit Orders</b>
4	40.00	1
0	0.00	0
4	40.00	0
0	0.00	14
0	0.00	9
1	10.00	0
1	10.00	5
0	0.00	4
0	0.00	4
0	0.00	2

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

<b>Marketable Limit Orders</b>	<b>Marketable Limit Orders(%)</b>	<b>Non-Marketable Limit Orders</b>
0		0.00 0
0		0.00 0
0		0.00 0

<b>Marketable Limit Orders as % of Non-Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	<b>Non-Marketable Limit Orders as % of Non-Directed Orders</b>
7.32		5 12.20

<b>Marketable Limit Orders</b>	<b>Marketable Limit Orders(%)</b>	<b>Non-Marketable Limit Orders</b>
2		66.67 0
0		0.00 0

0	0.00	0
1	33.33	0
0	0.00	4
0	0.00	3
0	0.00	3
0	0.00	0

**Marketable Limit Orders as % of Non-Directed Orders**  
 14.29

**Total Non-Marketable Limit Orders**

**Non-Marketable Limit Orders as % of Non-Directed Orders**  
 5                      8.93

**Marketable Limit Orders**  
**Marketable Limit Orders(%)**

**Non-Marketable Limit Orders**

1	12.50	0
4	50.00	0
0	0.00	11
1	12.50	0
2	25.00	0

0	0.00	6
0	0.00	0
0	0.00	1
0	0.00	0

**Marketable Limit Orders as % of Non-Directed Orders**  
 0.00

**Total Non-Marketable Limit Orders**

**Non-Marketable Limit Orders as % of Non-Directed Orders**  
 0 0.00

**Marketable Limit Orders**  
**Marketable Limit Orders(%)**

**Non-Marketable Limit Orders**

**Marketable Limit Orders as % of Non-Directed Orders**  
 6.25

**Total Non-Marketable Limit Orders**

**Non-Marketable Limit Orders as % of Non-Directed Orders**  
 7 21.88

<b>Marketable Limit Orders</b>	<b>Marketable Limit Orders(%)</b>	<b>Non-Marketable Limit Orders</b>	
0		0.00	17
1		50.00	0
0		0.00	0
1		50.00	1
0		0.00	3
0		0.00	0
0		0.00	2

<b>Marketable Limit Orders as % of Non-Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	<b>Non-Marketable Limit Orders as % of Non-Directed Orders</b>	
5.48		6	4.11

<b>Marketable Limit Orders</b>	<b>Marketable Limit Orders(%)</b>	<b>Non-Marketable Limit Orders</b>	
3		42.86	0

2	28.57	0
0	0.00	0
0	0.00	23
1	14.29	0
0	0.00	11
1	14.29	3
0	0.00	3
0	0.00	0
0	0.00	0

**Marketable Limit Orders as % of Non-Directed Orders**  
 0.00  
**Total Non-Marketable Limit Orders**

**Non-Marketable Limit Orders as % of Non-Directed Orders**  
 0  
 0.00

**Marketable Limit Orders**  
**Marketable Limit Orders(%)**

**Non-Marketable Limit Orders**

<b>Total Other Orders</b>	<b>Other Orders as % of Non-Directed Orders</b>
1	2.50

<b>Non-Marketable Limit Orders(%)</b>	<b>Other Orders</b>	<b>Other Orders(%)</b>	<b>Net Payment Paid/Received for Market Orders(USD)</b>	<b>Net Payment Paid/Received for Market Orders(cents per hundred shares)</b>
8.33	1	100.00	0	0
0.00	0	0.00	0	0
8.33	0	0.00	0	0
33.33	0	0.00	0	0
8.33	0	0.00	0	0
33.33	0	0.00	0	0
8.33	0	0.00	0	0
0.00	0	0.00	0	0

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

<b>Non-Marketable Limit Orders(%)</b>	<b>Other Orders</b>	<b>Other Orders(%)</b>	<b>Net Payment Paid/Received for Market Orders(USD)</b>	<b>Net Payment Paid/Received for Market Orders(cents per hundred shares)</b>
2.56	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
35.90	0	0.00	0	0
23.08	0	0.00	0	0
0.00	0	0.00	0	0
12.82	0	0.00	0	0
10.26	0	0.00	0	0
10.26	0	0.00	0	0
5.13	0	0.00	0	0



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

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

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

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

0.00	0	0.00	0	0
0.00	0	0.00	0	0
40.00	0	0.00	0	0
30.00	0	0.00	0	0
30.00	0	0.00	0	0
0.00	0	0.00	0	0

**Other Orders as % of**  
**Total Other Orders    Non-Directed Orders**  
 0                            0.00

<b>Non-Marketable Limit Orders(%)</b>	<b>Other Orders</b>	<b>Other Orders(%)</b>	<b>Net Payment Paid/Received for Market Orders(USD)</b>	<b>Net Payment Paid/Received for Market Orders(cents per hundred shares)</b>
0.00	0	0.00	0	0
0.00	0	0.00	0	0
61.11	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
0.00	4	100.00	0	0
5.56	0	0.00	0	0
0.00	0	0.00	0	0

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

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

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

<b>Non-Marketable Limit Orders(%)</b>	<b>Other Orders</b>	<b>Other Orders(%)</b>	<b>Net Payment Paid/Received for Market Orders(USD)</b>	<b>Net Payment Paid/Received for Market Orders(cents per hundred shares)</b>
73.91	0	0.00	0	0
0.00	0	0.00	0	0
0.00	0	0.00	0	0
4.35	0	0.00	0	0
13.04	0	0.00	0	0
0.00	0	0.00	0	0
8.70	0	0.00	0	0

**Other Orders as % of  
Total Other Orders Non-Directed Orders**  
0 0.00

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

0.00	0	0.00	0	0
0.00	0	0.00	0	0
56.10	0	0.00	0	0
0.00	0	0.00	0	0
26.83	0	0.00	0	0
7.32	0	0.00	0	0
7.32	0	0.00	0	0
0.00	0	0.00	0	0
0.00	1	100.00	0	0

**Other Orders as % of**  
**Total Other Orders    Non-Directed Orders**  
 0                            0.00

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

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

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

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

<b>Net Payment Paid/Received for Marketable Limit Orders(USD)</b>	<b>Net Payment Paid/Received for Marketable Limit Orders(cents per hundred shares)</b>	<b>Net Payment Paid/Received for Non-Marketable Limit Orders(USD)</b>	<b>Net Payment Paid/Received for Non-Marketable Limit Orders(cents per hundred shares)</b>	<b>Net Payment Paid/Received for Other Orders(USD)</b>
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0	0	0	0	0
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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

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

0

0

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

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

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

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

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

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

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

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