July 2023

## 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	Limit Orders	
39	100.00	24	61.54	6	6

Venue - Non- directed Order Flow Citadel Securities	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
LLC(CDRG)	16	38.10	11	45.83
VIRTU Americas, LLC(NITE)	7	16.67	5	20.83
Jane Street Capital, LLC(JNST)	6	14.29	3	12.50
G1 Execution Services, LLC(ETMM)	5	11.90	5	20.83
New York Stock Exchange(NYSE)	4		0	0.00
Cboe EDGX US Equities	7	3.32	Ü	0.00
Exchange(EDGX) Members	2	4.76	0	0.00
Exchange(MEMX)	1	2.38	0	0.00
NACDAO Evoqueica				
NASDAQ Execution Services, LLC(NSDQ)	1	2.38	0	0.00

## July 2023

## 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	Limit Orders
75	100.00	68	90.67	2

Venues

Venue - Non- directed Order Flow Citadel Securities	Non-Non-Directed Orders Order	-Directed ers(%) Mark	et Orders N	Лarket Orders(%)
LLC(CDRG)	27	32.53	26	38.24
VIRTU Americas, LLC(NITE)	17	20.48	16	23.53
Jane Street Capital, LLC(JNST)	14	16.87	14	20.59
G1 Execution Services, LLC(ETMM)	12	14.46	11	16.18
NASDAQ Execution				
Services, LLC(NSDQ)	6	7.23	0	0.00
New York Stock Exchange(NYSE)	2	2.41	0	0.00
NYSE Arca(ARCA) Instinet	1	1.20	0	0.00
BlockCross(BLKX) Cboe EDGX US	1	1.20	0	0.00
Equities Exchange(EDGX) Members	1	1.20	0	0.00
Exchange(MEMX)	1	1.20	0	0.00

July 2023

Option Contracts Summary

Total Non-Directed Orders Venues	Non-Directed Orders as % of All Orders 5 100.00	<b>Total Market Orders</b>	Market Orders as % of Non-Directed Orders 100.00	Total Marketable Limit Orders
Venue - Non-		Non-Directed		
directed Order Flow	Non-Directed Orders	Orders(%)	Market Orders	Market Orders(%)
Susquehanna Capital Group(SUSQ	) 4	80.00	4	80.00
Citadel Securities LLC(CDRG)	1	20.00	1	20.00
August 2023				
S&P 500 Stocks Summary				
Total Non-Directed Orders	as % of All Orders	<b>Total Market Orders</b>	Market Orders as % of Non-Directed Orders 93.55	Total Marketable Limit Orders
Venues				
Venue - Non-		Non-Directed		
directed Order Flow	Non-Directed Orders		Market Orders	Market Orders(%)
Citadel Securities LLC(CDRG) VIRTU Americas,	9	27.27	9	31.03
LLC(NITE)	9	27.27	9	31.03
lang Stroot Capital	9	27.27		
Jane Street Capital, LLC(JNST)	5		5	17.24

NASDAQ Execution				
Services, LLC(NSDQ)	2	6.06	0	0.00
Two Sigma				
Securities,				
LLC(SOHO)	2	6.06	2	6.90
Cboe EDGX US				
Equities				
Exchange(EDGX)	1	3.03	0	0.00
New York Stock				
Exchange(NYSE)	1	3.03	0	0.00
UBS Securities,				
LLC(UBSS)	1	3.03	1	3.45

August 2023

Non-S&P 500 Stocks Summary

			Market Orders as %		
<b>Total Non-Directed</b>	Non-Directed Orders	3	of Non-Directed	<b>Total Marketable</b>	
Orders	as % of All Orders	<b>Total Market Orders</b>	Orders	<b>Limit Orders</b>	
3	6 100.00	34	94.44		0

Venue - Non- directed Order Flow Citadel Securities	Non-Directed Orders Orde	-Directed ers(%) Market C	Orders Mai	ket Orders(%)
LLC(CDRG)	16	35.56	15	44.12
VIRTU Americas, LLC(NITE)	11	24.44	11	32.35
NASDAQ Execution Services, LLC(NSDQ)	7	15.56	0	0.00
G1 Execution Services, LLC(ETMM) Jane Street Capital,	4	8.89	4	11.76
LLC(JNST)	4	8.89	4	11.76

Cboe EDGX US Equities Exchange(EDGX)	3	6.67	0	0.00
August 2023				
Option Contracts Summary				
Total Non-Directed Orders	Non-Directed Orders as % of All Orders 100.00	Total Market Orders		Total Marketable Limit Orders
Venues				
Venue - Non- directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)
Citadel Securities	Non Briedled Gracis	0.00.5(70)	Market Orders	market Graers(70)
LLC(CDRG)	3	50.00	2	100.00
Wolverine Execution Services LLC(WEXX) Dash Financial	n 2	33.33	0	0.00
Technologies LLC(DASH)	1	16.67	0	0.00
September 2023 S&P 500 Stocks				
Summary				
Total Non-Directed Orders	Non-Directed Orders	Total Market Orders		Total Marketable Limit Orders

Venue - Non-	Non-Directed			
directed Order Flow	Non-Directed Orders Orders(%)	<b>Market Orders</b>	Market Order	s(%)
Citadel Securities				
LLC(CDRG)	33	30.56	32	29.91
VIRTU Americas,				
LLC(NITE)	28	25.93	28	26.17
G1 Execution				
Services, LLC(ETMM)	26	24.07	26	24.30
Jane Street Capital,				
LLC(JNST)	17	15.74	17	15.89
Two Sigma				
Securities,				
LLC(SOHO)	3	2.78	3	2.80
UBS Securities,				
LLC(UBSS)	1	0.93	1	0.93

September 2023

Non-S&P 500 Stocks Summary

				Market Orders as %		
Total Non-Directe	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>	
	128	100.00	122	95.31		2

	Non-Directed Orders Orders(%)	d Market Orders	Market Order	s(%)
Citadel Securities  LLC(CDRG)  VIRTU Americas,	52	41.27	52	42.62
LLC(NITE)	38	30.16	38	31.15
G1 Execution Services, LLC(ETMM)	16	12.70	16	13.11

Jane Street Capital, LLC(JNST)	15	11.90	15	12.30
NASDAQ Execution Services, LLC(NSDQ) New York Stock	3	2.38	0	0.00
Exchange(NYSE) UBS Securities,	1	0.79	0	0.00
LLC(UBSS)	1	0.79	1	0.82

September 2023

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	Limit Orders	
	1 100.00	0	0.0	0	1

Venue - Non-	Non-Directed	d		
directed Order Flow	Non-Directed Orders Orders(%)	<b>Market Orders</b>	Market	: Orders(%)
<b>Citadel Securities</b>				
LLC(CDRG)	1	100.00	0	0.00

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Stocks and Options Order Routing Public
Report
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EDT

3rd Quarter, 2023

Marketable Limit
Orders as % of NonDirected Orders

**Total Non-Marketable Limit Orders** 

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

15.38

9 23.08

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
	3	50.00	)	2
	2	33.33	3	0
	1	16.67	7	2
	0	0.00	)	0
	0	0.00	)	4
	0	0.00	)	2
	0	0.00	)	1
	0	0.00	)	1

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

**Total Non-Marketable Limit Orders** 2.67

Non-Marketable
Limit Orders as % of
Non-Directed Orders
5 6.67

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
	1	50.00		0
	0	0.00		1
	0	0.00		0
	1	50.00		0
	0	0.00		6
	0 0	0.00 0.00		2
	0	0.00		0
	0	0.00		1
	0	0.00		1

Marketable Limit
Orders as % of Non-
Directed Orders

**Total Non-Marketable Limit Orders** 

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

0.00

Marketable Li Orders	imit  Marketable Limit Orders(%)	Non-Mark Limit Orde	
Olucis	ivial retable Little Olders(70)	Lillit Orde	13
	0	0.00	0
	0	0.00	0

Marketable Limit
Orders as % of NonDirected Orders

3.23

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

Non-Directed Orders

1 3.23

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	2
0	0.00	0
0	0.00	1
0	0.00	1
0	0.00	0

Marketable Limit
Orders as % of NonDirected Orders

0.00

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

Non-Directed Orders

2 5.56

Marketable Limit Orders	Marketable Limit Orders(%)		Non-Marketable Limit Orders	
(	0	0.00		1
(	0	0.00		0
(	0	0.00		7
•	0	0.00		0
	0	0.00		0

0 0.00 3

Marketable Limit
Orders as % of NonDirected Orders

Total Non-Marketable Limit Orders

0.00

Non-Directed Orders

Non-Directed Orders

4 66.67

Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	
	0	0.00	1
	0	0.00	2
	0	0.00	1

Marketable Limit
Orders as % of NonDirected Orders

0.00

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

Non-Directed Orders

1.83

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

<b>Marketable Limit</b>		Non-Marketable			
Orders as % of Non	-	Limit Orders as % of			
<b>Directed Orders</b>	<b>Total Non-Marketable Limit Orders</b>	Non-Dir	ected Orders		
1.5	66	4	3.13		

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
1	100.00	2
0	0.00	1
0	0.00	0

Marketable Limit
Orders as % of NonDirected Orders

100.00

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

Non-Directed Orders

0 0.00

Marketable Limit
Orders

Marketable Limit Orders(%)

Don-Marketable Limit Orders

Limit Orders

0
0.00
1

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

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%	)	Net Payment Paid/Received for Market Orders(USD	Net Payment Paid/Received for Market Orders(cer ) per hundred share	nts
16.67		0	0.00		0	0
0.00		0	0.00		0	0
16.67		0	0.00		0	0
0.00		0	0.00		0	0
33.33		0	0.00		0	0
16.67		0	0.00		0	0
8.33		0	0.00		0	0
8.33		0	0.00		0	0

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

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%	6)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cen per hundred share	
0.00		0	0.00	C	)	0
8.33		0	0.00	C	)	0
0.00		0	0.00	C	)	0
0.00		0	0.00	C	)	0
50.00		0	0.00	C	)	0
16.67		0	0.00	C	)	0
8.33		0	0.00			0
0.00		1 1	.00.00	C	)	0
8.33		0	0.00	C	)	0
8.33		0	0.00	C	)	0

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

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%	Net Payment Paid/Received for ) Market Orders(USE	Net Payment Paid/Received for Market Orders(cen p) per hundred share	
0.	.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

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%	)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cen per hundred shares	
0.00	1	0	0.00	0		0
0.00	1	0	0.00	0		0
0.00		0	0.00	0		0
0.00		0	0.00	0		0
0.00	•	U	0.00	U		U

50.00	0	0.00	0	0
0.00	0	0.00	0	0
25.00	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
0 0.00

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%	)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cen per hundred shares	
9.09		0	0.00	0		0
0.00		0	0.00	0		0
63.64		0	0.00	0		0
0.00		0	0.00	0		0
				•		
0.00		0	0.00	0		0

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

Non-Marketa Limit Orders(		Other Orders	Othe	er Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
	25.00		0	0.00	0	0
	50.00	)	0	0.00	0	0
	25.00	)	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 Orders(%)	)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cer per hundred share	
100.00		0	0.00	C	)	0
0.00		0	0.00	C		0
0.00		0	0.00	C	)	0
0.00		0	0.00	C	)	0
0.00		0	0.00	C	)	0
0.00		0	0.00	C	)	0

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

Non-Marketable Limit Orders(%)	Other Orders	Other Orders(%		Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)	;
0.0	0	0	0.00	0	0	į
0.0	0	0	0.00	0	0	,
0.0	0	0	0.00	0	0	)

0.00	0	0.00	0	0
66.67	0	0.00	0	0
33.33	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

Non-Marketable Limit Orders(%)	Other Orders	Other	Orders(%)	Net Payment Paid/Received for Market Orders(USD)	Net Payment Paid/Received for Market Orders(cents per hundred shares)
100.00	)	0	0.00	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	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		
	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)	Limit Orders(cents	Net Payment Paid/Received for s) Other Orders(USD	
	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	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	ı	0
	0		0		0	0		0
	0		0		0	0	ı	0
	0		0		0	0	1	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)	Limit Orders(cents	Net Payment Paid/Received for Other Orders(USD)	
	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	C	)	0
	0		0		0	C	)	0
	0		0		0	C	)	0
	0		0		0	C		0
	0		0		0	C	)	0
	0		0		0	C	)	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)	Limit Orders(cents	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

**Net Payment** 

Net Payment	Paid/Received for	Net Payment	Paid/Received for		
Paid/Received for	<b>Marketable Limit</b>	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)	
	0	0	0	)	0

**Net Payment** 

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)

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