

3rd Quarter, 2020

July 2020

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	Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Total Other Orders	Other Orders as % of Non-Directed Orders
480	100.00	411	85.63	28	5.83	41	8.54	0	0.00

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	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)	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)
Citadel Securities LLC(CDRG)	242	48.79	217	52.80	16	3.33	57.14	9	16.98	0	0.00	0	0	0	0	0	0	0
VIRTU Americas LLC(NITE)	154	31.05	137	33.33	11	2.29	39.29	6	11.32	0	0.00	0	0	0	0	0	0	0
JANE STREET CAPITAL, LLC(INST)	24	4.84	24	5.84	0	0.00	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0
Two Sigma Securities, LLC(SOHO)	18	3.63	16	3.89	1	0.21	3.57	1	1.89	0	0.00	0	0	0	0	0	0	0
G1 Execution Services, LLC(ETMM)	15	3.02	14	3.41	0	0.00	0.00	1	1.89	0	0.00	0	0	0	0	0	0	0
NASDAQ Execution Services, LLC(NSDQ)	15	3.02	0	0.00	0	0.00	15	28.30	0	0.00	0	0	0	0	0	0	0	0
Cboe EDGX US Equities Exchange(EDGX)	9	1.81	0	0.00	0	0.00	9	16.98	0	0.00	0	0	0	0	0	0	0	0
New York Stock Exchange(NYSE)	9	1.81	0	0.00	0	0.00	9	16.98	0	0.00	0	0	0	0	0	0	0	0
UBS Securities, LLC(UBSS)	6	1.21	3	0.73	0	0.00	3	5.66	0	0.00	0	0	0	0	0	0	0	0
Instinet BlackCross(BLCK)	4	0.81	0	0.00	0	0.00	0	0.00	4	100.00	0	0	0	0	0	0	0	0

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	Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Total Other Orders	Other Orders as % of Non-Directed Orders
703	100.00	556	79.09	58	8.25	85	12.09	4	0.57

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	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)	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)
Citadel Securities LLC(CDRG)	372	45.70	296	53.60	33	4.71	55.93	37	20.33	4	23.53	0	0	0	0	0	0	0
VIRTU Americas LLC(NITE)	225	27.64	192	34.53	22	3.13	37.29	11	6.04	0	0.00	0	0	0	0	0	0	0
Cboe EDGX US Equities Exchange(EDGX)	53	6.27	0	0.00	0	0.00	53	28.02	0	0.00	0	0	0	0	0	0	0	0
NASDAQ Execution Services, LLC(NSDQ)	42	5.16	0	0.00	1	0.14	1.69	41	22.53	0	0.00	0	0	0	0	0	0	0
New York Stock Exchange(NYSE)	32	3.93	0	0.00	0	0.00	32	17.58	0	0.00	0	0	0	0	0	0	0	0
JANE STREET CAPITAL, LLC(INST)	29	3.56	26	4.68	2	0.28	3.39	1	0.55	0	0.00	0	0	0	0	0	0	0
Two Sigma Securities, LLC(SOHO)	18	2.21	16	2.88	0	0.00	2	1.10	0	0.00	0	0	0	0	0	0	0	0
G1 Execution Services, LLC(ETMM)	17	2.09	16	2.88	1	0.14	1.69	0	0.00	0	0.00	0	0	0	0	0	0	0
Instinet BlackCross(BLCK)	13	1.60	0	0.00	0	0.00	0	0.00	13	76.47	0	0	0	0	0	0	0	0
UBS Securities, LLC(UBSS)	8	0.98	8	1.44	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0

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	Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Total Other Orders	Other Orders as % of Non-Directed Orders
52	100.00	9	17.31	4	7.69	36	69.23	3	5.77

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	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)	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)
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Citadel Securities LLC(CDRG)	29	55.77	7	77.78	2	50.00	20	55.56	0	0.00	0	0	0	0	0	0	0	0	0	0
Wolverine Execution Services LLC(WEXX)	7	13.46	0	0.00	0	0.00	7	19.44	0	0.00	0	0	0	0	0	0	0	0	0	0
Dash Financial Technologies LLC(DASH)	5	9.62	1	11.11	0	0.00	4	11.11	0	0.00	0	0	0	0	0	0	0	0	0	0
CKGgroup Global Markets, Inc.(KEXP)	5	9.62	1	11.11	0	0.00	1	2.78	3	100.00	0	0	0	0	0	0	0	0	0	0
Susquehanna Capital Group(SUSQ)	3	5.77	0	0.00	1	25.00	2	5.56	0	0.00	0	0	0	0	0	0	0	0	0	0
Morgan Stanley & Company LLC(MSCO)	2	3.85	0	0.00	0	0.00	2	5.56	0	0.00	0	0	0	0	0	0	0	0	0	0
Interactive Brokers LLC(IBKR)	1	1.92	0	0.00	1	25.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0	0	0

August 2020

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	Marketable Limit Orders as % of Non-Directed Orders	Total Non-Marketable Limit Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Total Other Orders	Other Orders as % of Non-Directed Orders
580	100.00	550	94.83	2	0.34	28	4.83	0	0.00

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	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)	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)
Citadel Securities LLC(CDRG)	317	51.29	311	56.86	0	0.00	6	9.52	0	0.00	0	0	0	0	0	0	0	0
VIRTU Americas LLC(VITE)	193	30.91	187	34.19	2	0.34	100.00	2	3.17	0	0.00	0	0	0	0	0	0	0
NASDAQ Execution Services, LLC(NSDQ)	39	6.31	0	0.00	0	0.00	39	61.90	0	0.00	0	0	0	0	0	0	0	0
JANE STREET CAPITAL, LLC(JNST)	23	3.72	23	4.20	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0
New York Stock Exchange(NYSE)	11	1.78	0	0.00	0	0.00	11	17.46	0	0.00	0	0	0	0	0	0	0	0
Two Sigma Securities, LLC(SOHO)	11	1.78	11	2.01	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0
G1 Execution Services, LLC(ETMM)	10	1.62	10	1.83	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0
Instinet BlockCross(BLXX)	6	0.97	0	0.00	0	0.00	0	0.00	6	100.00	0	0	0	0	0	0	0	0
UBS Securities, LLC(UBSS)	5	0.81	5	0.91	0	0.00	0	0.00	0	0.00	0	0	0	0	0	0	0	0
Cboe EDGX US Equities Exchange(EDGX)	4	0.65	0	0.00	0	0.00	4	6.35	0	0.00	0	0	0	0	0	0	0	0

Non-S&P 500 Stocks

Summary

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601	100.00	490	81.53	36	5.99	73	12.15	2	0.33

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	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)	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)
Citadel Securities LLC(CDRG)	259	37.70	237	48.37	13	2.16	36.11	7	4.83	2	12.50	0	0	0	0	0	0	0
VIRTU Americas LLC(VITE)	217	31.59	192	39.18	15	2.50	41.67	10	6.90	0	0.00	0	0	0	0	0	0	0
NASDAQ Execution Services, LLC(NSDQ)	44	6.40	0	0.00	1	0.17	2.78	43	29.66	0	0.00	0	0	0	0	0	0	0
New York Stock Exchange(NYSE)	41	5.97	0	0.00	0	0.00	0.00	41	28.28	0	0.00	0	0	0	0	0	0	0
Cboe EDGX US Equities Exchange(EDGX)	38	5.53	0	0.00	0	0.00	0.00	38	26.21	0	0.00	0	0	0	0	0	0	0
JANE STREET CAPITAL, LLC(JNST)	37	5.39	33	6.73	3	0.50	8.33	1	0.69	0	0.00	0	0	0	0	0	0	0
G1 Execution Services, LLC(ETMM)	16	2.33	14	2.86	2	0.33	5.56	0	0.00	0	0.00	0	0	0	0	0	0	0
Instinet BlockCross(BLXX)	14	2.04	0	0.00	0	0.00	0.00	0	0.00	14	87.50	0	0	0	0	0	0	0
Two Sigma Securities, LLC(SOHO)	13	1.89	11	2.24	2	0.33	5.56	0	0.00	0	0.00	0	0	0	0	0	0	0
Cboe BZX U.S. Equities Exchange(BATS)	4	0.58	0	0.00	0	0.00	0.00	4	2.76	0	0.00	0	0	0	0	0	0	0

Option Contracts

Summary

UBS Securities, LLC(UBSS)	4	0.65	4	0.90	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
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Option Contracts

Summary

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74	100.00	9	12.16	21	28.38	44	59.46	0	0.00

Venues

Venue - Non-Directed Order Flow	Non-Directed Orders	Non-Directed Orders(%)	Market Orders	Market Orders(%)	Marketable Limit Orders	Marketable Limit Orders(%)	Non-Marketable Limit Orders	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)	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)
Citadel Securities LLC(CDRG)	44	59.57	4	5.74	12	16.22	57.14	77.22	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Susquehanna Capital Group(SUSQ)	19	25.68	3	4.05	7	9.47	33.33	44.44	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Dash Financial Technologies LLC(DASH)	9	12.11	0	0.00	1	1.35	4.76	6.46	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Wolverine Execution Services LLC(WEXX)	8	10.81	0	0.00	0	0.00	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Morgan Stanley & Company LLC(MSCO)	7	9.47	0	0.00	1	1.35	4.76	6.46	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00