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2nd Quarter, 2022

April 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as %     of     Non- Directed Orders	Marketable Limit Orders as % of NonDirected Orders	Non- Marketable Limit Orders as % of NonDirected Orders	Other Orders as % of Non- Directed Orders
100%	17.99%	0%	82.01%	0%

Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
NEW YORK STOCK EXCHANGE, INC. (XNYS)	30.58%	1.89%	0.00%	28.70%	0.00%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	11.80%	0.00%	0.00%	11.80%	0.00%								
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	11.58%	0.53%	0.00%	11.06%	0.00%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	9.92%	0.35%	0.00%	9.57%	0.00%								

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Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
NYSE ARCA (ARCX)	9.92%	0.18%	0.00%	9.74%	0.00%								
MEMX LLC EQUITIES (MEMX)	8.73%	0.00%	0.00%	8.73%	0.00%								
UBS ATS (UBSA)	2.68%	2.19%	0.00%	0.48%	0.00%								
NASDAQ - ALL MARKETS (XNAS)	2.15%	2.06%	0.00%	0.09%	0.00%								
INVESTORS EXCHANGE (IEXG)	2.11%	1.97%	0.00%	0.13%	0.00%								
JANE STREET JX (JSJX)	1.84%	1.84%	0.00%	0.00%	0.00%								
JPMX (JPMX)	1.18%	0.88%	0.00%	0.31%	0.00%								
CODA MARKETS - MICRO AND BLOCK (CODA)	1.01%	1.01%	100.00%	0.00%	100.00%								
CITADEL SECURITIES (CDED)	1.01%	0.31%	200.00%	0.70%	200.00%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	0.83%	0.79%	300.00%	0.04%	300.00%								
LEVEL ATS (LEVL)	0.66%	0.53%	400.00%	0.13%	400.00%								
NYSE NATIONAL, INC. (XCIS)	0.61%	0.57%	500.00%	0.04%	500.00%								
SIGMA X2 (SGMT)	0.53%	0.26%	600.00%	0.26%	600.00%								

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April 2022													
Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
INTELLIGENTCR OSS ASPEN INTELLIGENT BID/OFFER (ASPN)	0.48%	0.48%	700.00%	0.00%	700.00%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.44%	0.44%	800.00%	0.00%	800.00%								
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	0.39%	0.39%	900.00%	0.00%	900.00%								
NASDAQ OMX BX (XBOS)	0.39%	0.35%	1000.00%	0.04%	1000.00 %								
POSIT (ITGI)	0.39%	0.39%	1100.00%	0.00%	1100.00 %								
BIDS TRADING L.P. (BIDS)	0.13%	0.13%	1200.00%	0.00%	1200.00 %								
NYSE CHICAGO, INC. (XCHI)	0.13%	0.13%	1300.00%	0.00%	1300.00 %								
VIRTU MATCHIT - MAIN CROSSING SESSION (VFMI)	0.13%	0.09%	1400.00%	0.04%	1400.00 %								
CREDIT SUISSE  AES  CROSSFINDER  (CAES)	0.09%	0.00%	1500.00%	0.09%	1500.00 %								
NASDAQ OMX PSX (XPSX)	0.09%	0.09%	1600.00%	0.00%	1600.00 %								

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### April 2022

Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
KNIGHT LINK (KNLI)	0.09%	0.09%	1700.00%	0.00%	1700.00 %								
NYSE MKT LLC (XASE)	0.04%	0.00%	1800.00%	0.04%	1800.00 %								
BARCLAYS ATS (BARX)	0.04%	0.04%	1900.00%	0.00%	1900.00 %								

#### Non S&P 500 Stocks

### Summary

n-Directed Orders of All Orders	Market Orders as %     of     Non- Directed Orders	Marketable Limit Orders as % of NonDirected Orders	Non- Marketable Limit Orders as % of NonDirected Orders	Other Orders as % of Non- Directed Orders
100%	71.29%	0%	28.71%	0%

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
	0.22%	0%	0.00%	0%	0%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	16.38%	11%	0.00%	6%	0%								
NYSE ARCA (ARCX)	15.29%	9%	0.00%	6%	0%								
NASDAQ - ALL MARKETS (XNAS)	6.29%	5%	0.00%	1%	0%								
CITADEL SECURITIES (CDED)	6.20%	6%	0.00%	1%	0%								
NYSE MKT LLC (XASE)	5.44%	5%	0.00%	0%	0%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	4.69%	1%	0.00%	4%	0%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	4.67%	3%	0.00%	1%	0%								
MEMX LLC EQUITIES (MEMX)	3.17%	2%	0.00%	2%	0%								
LEVEL ATS (LEVL)	2.58%	2%	0.00%	1%	0%								
UBS ATS (UBSA)	1.87%	1%	0.00%	0%	0%								
INVESTORS EXCHANGE (IEXG)	1.57%	1%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
KNIGHT LINK (KNLI)	1.35%	1%	0.00%	0%	0%								
JANE STREET JX (JSJX)	1.33%	1%	0.00%	1%	0%								
NASDAQ OMX BX (XBOS)	1.27%	1%	0.00%	0%	0%								
NASDAQ OMX PSX (XPSX)	1.23%	1%	0.00%	0%	0%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	1.17%	1%	0.00%	0%	0%								
NYSE NATIONAL, INC. (XCIS)	1.06%	1%	0.00%	0%	0%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	1.03%	1%	0.00%	0%	0%								
CREDIT SUISSE  AES  CROSSFINDER  (CAES)	0.75%	1%	0.00%	0%	0%								
VIRTU MATCHIT - MAIN CROSSING SESSION (VFMI)	0.61%	1%	0.00%	0%	0%								
SIGMA X2 (SGMT)	0.59%	0%	0.00%	0%	0%								
JPMX (JPMX)	0.51%	0%	0.00%	0%	0%								
BARCLAYS ATS (BARX)	0.47%	0%	0.00%	0%	0%								

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April 2022													
Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
MIAX PEARL EQUITIES (EPRL)	0.42%	0%	0.00%	0%	0%								
BOLSA DE VALENCIA (XVAL)	0.35%	0%	0.00%	0%	0%								
BLOOMBERG TRADEBOOK SINGAPORE PTE LTD (BTBS)	0.29%	0%	0.00%	0%	0%								
TWO SIGMA SECURITIES, LLC (SOHO)	0.28%	0%	0.00%	0%	0%								
CODA MARKETS - MICRO AND BLOCK (CODA)	0.25%	0%	0.00%	0%	0%								
#N/A	0.00%	0.00%	0.00%	0.00%	0%								
INTELLIGENTCR OSS ASPEN INTELLIGENT BID/OFFER (ASPN)	0.17%	0%	0.00%	0%	0%								
POSIT (ITGI)	0.16%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRTX)	0.15%	0%	0.00%	0%	0%								
NASDAQ OMX PHLX (XPHL)	0.13%	0%	0.00%	0%	0%								
INSTINET CBX (US) (ICBX)	0.12%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
BNPP CORTEX ATS (BNPC)	0.11%	0%	0.00%	0%	0%								
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	0.07%	0%	0.00%	0%	0%								
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	0.04%	0%	0.00%	0%	0%								
BIDS TRADING L.P. (BIDS)	0.03%	0%	0.00%	0%	0%								
MS POOL (MSPL)	0.02%	0%	0.00%	0%	0%								
NYSE CHICAGO, INC. (XCHI)	0.02%	0%	0.00%	0%	0%								
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS (BAML)	0.01%	0%	0.00%	0%	0%								
INSTINET DESK CROSS (INCA)	0.01%	0%	0.00%	0%	0%								
STONEX FINANCIAL INC. (INTL)	0.01%	0%	0.00%	0%	0%								
INTELLIGENTCR OSS (INCR)	0.00%	0%	0.00%	0%	0%								
#N/A	0.00%	0%	0.00%	0%	0%								

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May 2022

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as %     of     Non- Directed Orders	Marketable Limit Orders as % of NonDirected Orders	Non- Marketable Limit Orders as % of NonDirected Orders	Other Orders as % of Non- Directed Orders
100%	84.23%	0%	15.77%	0%

Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
NASDAQ - ALL MARKETS (XNAS)	16.26%	14.15%	0.00%	2.11%	0.00%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	13.01%	12.03%	0.00%	0.98%	0.00%								
UBS ATS (UBSA)	10.08%	7.80%	0.00%	2.28%	0.00%								
INVESTORS EXCHANGE (IEXG)	9.76%	7.97%	0.00%	1.79%	0.00%								
NYSE ARCA (ARCX)	8.62%	6.83%	0.00%	1.79%	0.00%								

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Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
JANE STREET JX (JSJX)	4.88%	4.88%	0.00%	0.00%	0.00%								
CODA MARKETS - MICRO AND BLOCK (CODA)	3.90%	3.90%	0.00%	0.00%	0.00%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	3.90%	3.41%	0.00%	0.49%	0.00%								
JPMX (JPMX)	3.25%	2.11%	0.00%	1.14%	0.00%								
SIGMA X2 (SGMT)	2.93%	2.28%	0.00%	0.65%	0.00%								
LEVEL ATS (LEVL)	2.93%	2.44%	0.00%	0.49%	0.00%								
CITADEL SECURITIES (CDED)	2.76%	1.30%	100.00%	1.46%	100.00%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	2.76%	2.76%	200.00%	0.00%	200.00%								
MEMX LLC EQUITIES (MEMX)	2.44%	1.79%	300.00%	0.65%	300.00%								
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	1.79%	1.30%	400.00%	0.49%	400.00%								
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	1.46%	1.46%	500.00%	0.00%	500.00%								

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Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
POSIT (ITGI)	1.14%	1.14%	600.00%	0.00%	600.00%								
NYSE NATIONAL, INC. (XCIS)	0.98%	0.98%	700.00%	0.00%	700.00%								
NASDAQ OMX BX (XBOS)	0.81%	0.65%	800.00%	0.16%	800.00%								
NYSE CHICAGO, INC. (XCHI)	0.81%	0.81%	900.00%	0.00%	900.00%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.81%	0.81%	1000.00%	0.00%	1000.00								
INTELLIGENTCR OSS ASPEN INTELLIGENT BID/OFFER (ASPN)	0.81%	0.81%	1100.00%	0.00%	1100.00 %								
VIRTU MATCHIT - MAIN CROSSING SESSION (VFMI)	0.81%	0.81%	1200.00%	0.00%	1200.00 %								
MIAX PEARL EQUITIES (EPRL)	0.65%	0.33%	1300.00%	0.33%	1300.00 %								
NYSE MKT LLC (XASE)	0.49%	0.33%	1400.00%	0.16%	1400.00 %								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	0.33%	0.00%	1500.00%	0.33%	1500.00 %								

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Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS (BAML)	0.33%	0.33%	1600.00%	0.00%	1600.00 %								
BIDS TRADING L.P. (BIDS)	0.33%	0.33%	1700.00%	0.00%	1700.00 %								
BARCLAYS ATS (BARX)	0.33%	0.33%	1800.00%	0.00%	1800.00 %								
KNIGHT LINK (KNLI)	0.33%	0.16%	1900.00%	0.16%	1900.00 %								
CREDIT SUISSE  AES CROSSFINDER (CAES)	0.33%	0.00%	2000.00%	0.33%	2000.00 %								

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May 2022

Non S&P 500 Stocks

### Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non- Directed Orders	Marketable Limit Orders as % of NonDirected Orders	Non- Marketable Limit Orders as % of NonDirected Orders	Other Orders as % of Non- Directed Orders
100%	55.17%	0%	44.83%	0%

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
	33.61%	34%	0.00%	0%	0%								
NYSE ARCA (ARCX)	11.98%	3%	0.00%	9%	0%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	11.09%	3%	0.00%	8%	0%								
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	9.41%	3%	0.00%	6%	0%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	6.75%	1%	0.00%	5%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
NEW YORK STOCK EXCHANGE, INC. (XNYS)	4.82%	1%	0.00%	4%	0%								
MEMX LLC EQUITIES (MEMX)	4.54%	1%	0.00%	3%	0%								
NASDAQ - ALL MARKETS (XNAS)	4.37%	2%	0.00%	2%	0%								
NYSE MKT LLC (XASE)	1.74%	1%	0.00%	1%	0%								
CITADEL SECURITIES (CDED)	1.57%	1%	0.00%	0%	0%								
UBS ATS (UBSA)	1.01%	0%	0.00%	1%	0%								
LEVEL ATS (LEVL)	0.78%	0%	0.00%	0%	0%								
FIDELITY CROSSSTREAM ATS (XSTM)	0.75%	0%	0.00%	1%	0%								
INVESTORS EXCHANGE (IEXG)	0.67%	0%	0.00%	0%	0%								
NASDAQ OMX PSX (XPSX)	0.63%	0%	0.00%	0%	0%								
KNIGHT LINK (KNLI)	0.57%	0%	0.00%	0%	0%								
MIAX PEARL EQUITIES (EPRL)	0.48%	0%	0.00%	0%	0%								

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2nd Quarter, 2022

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.47%	0%	0.00%	0%	0%								
JANE STREET JX (JSJX)	0.46%	0%	0.00%	0%	0%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	0.42%	0%	0.00%	0%	0%								
SIGMA X2 (SGMT)	0.42%	0%	0.00%	0%	0%								
NYSE NATIONAL, INC. (XCIS)	0.42%	0%	0.00%	0%	0%								
CREDIT SUISSE  AES CROSSFINDER (CAES)	0.40%	0%	0.00%	0%	0%								
INSTINET CBX (US) (ICBX)	0.28%	0%	0.00%	0%	0%								
BARCLAYS ATS (BARX)	0.25%	0%	0.00%	0%	0%								
JPMX (JPMX)	0.22%	0%	0.00%	0%	0%								
NASDAQ OMX BX (XBOS)	0.21%	0%	0.00%	0%	0%								
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	0.20%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
VIRTU MATCHIT													
- MAIN CROSSING SESSION (VFMI)	0.20%	0%	0.00%	0%	0%								
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS (BAML)	0.19%	0%	0.00%	0%	0%								
CODA MARKETS - MICRO AND BLOCK (CODA)	0.14%	0%	0.00%	0%	0%								
BNPP CORTEX ATS (BNPC)	0.13%	0%	0.00%	0%	0%								
INTELLIGENTCR OSS ASPEN INTELLIGENT BID/OFFER (ASPN)	0.11%	0%	0.00%	0%	0%								
POSIT (ITGI)	0.09%	0%	0.00%	0%	0%								
TWO SIGMA SECURITIES, LLC (SOHO)	0.09%	0%	0.00%	0%	0%								
#N/A	0.09%	0%	0.00%	0%	0%								
TORONTO STOCK EXCHANGE (XTSE)	0.08%	0%	0.00%	0%	0%								

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2nd Quarter, 2022

May 2022													
Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	0.07%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRTX)	0.05%	0%	0.00%	0%	0%								
MS POOL (MSPL)	0.05%	0%	0.00%	0%	0%								
INTELLIGENTCR OSS (INCR)	0.02%	0%	0.00%	0%	0%								
BOLSA DE VALENCIA (XVAL)	0.02%	0%	0.00%	0%	0%								
SANTIAGO STOCK EXCHANGE (XSGO)	0.02%	0%	0.00%	0%	0%								
BIDS TRADING L.P. (BIDS)	0.02%	0%	0.00%	0%	0%								
NASDAQ OMX PHLX (XPHL)	0.02%	0%	0.00%	0%	0%								
NYSE CHICAGO, INC. (XCHI)	0.02%	0%	0.00%	0%	0%								
CHI-X CANADA ATS (CHIC)	0.02%	0%	0.00%	0%	0%								
NEO EXCHANGE - NEO-L (MARKET BY	0.02%	0%	0.00%	0%	0%								

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Venue - Non- directed Order	NonDirect ed Orders	Market	Marketab le Limit Orders	NonMarketa ble Limit	Other Orders	Net Payment Paid/Receive d for Market	Net Payment Paid/ Received for Market	Net Payment Paid/ Received for	Net Payment Paid/ Received for Marketable	Net Payment Paid/ Received for NonMarketa	Net Payment Paid/ Received for NonMarketa ble Limit	Net Payment Paid/Receiv ed for	Net Payment Paid/ Received for Other
Flow	(%)	Orders (%)	(%)	Orders (%)	(%)	Orders(USD)	Orders(cents per hundred shares)	Marketable Limit Orders(US D)	Limit Orders(cen ts per hundred shares)	ble Limit Orders(USD)	Orders(cents per hundred shares)	Other Orders(USD )	Orders(ce nts per hundred shares)
ORDER) (NEOE)													
ALPHA EXCHANGE (XATS)	0.01%	0%	0.00%	0%	0%								
INSTINET DESK CROSS (INCA)	0.01%	0%	0.00%	0%	0%								
OMEGA ATS (OMGA)	0.01%	0%	0.00%	0%	0%								
CX2 (XCX2)	0.01%	0%	0.00%	0%	0%								
MATCH NOW (MATN)	0.00%	0%	0.00%	0%	0%								
CANADIAN SECURITIES EXCHANGE - PURE (PURE)	0.00%	0%	0.00%	0%	0%								
OTCBB (XOTC)	0.00%	0%	0.00%	0%	0%								
OTC LINK ECN (OTCN)	0.00%	0%	0.00%	0%	0%								

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2nd Quarter, 2022

June 2022

S&P 500 Stocks

### Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non- Directed Orders	Marketable Limit Orders as % of NonDirected Orders	Non- Marketable Limit Orders as % of NonDirected Orders	Other Orders as % of Non- Directed Orders
100%	74.29%	0%	25.71%	0%

Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cent s per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cen ts per hundred shares)
#N/A	0.00%	0.00%	0.00%	0.00%	0.00%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	18.57%	2.86%	0.00%	15.71%	0.00%								
NASDAQ - ALL MARKETS (XNAS)	14.29%	11.43%	0.00%	2.86%	0.00%								
UBS ATS (UBSA)	5.71%	5.71%	0.00%	0.00%	0.00%								
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	5.71%	4.29%	0.00%	1.43%	0.00%								

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2nd Quarter, 2022

Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cent s per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cen ts per hundred shares)
CITADEL SECURITIES (CDED)	4.29%	4.29%	0.00%	0.00%	0.00%								
JANE STREET JX (JSJX)	4.29%	4.29%	0.00%	0.00%	0.00%								
CODA MARKETS - MICRO AND BLOCK (CODA)	4.29%	4.29%	0.00%	0.00%	0.00%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	2.86%	1.43%	0.00%	1.43%	0.00%								
CREDIT SUISSE AES CROSSFIND ER (CAES)	2.86%	1.43%	0.00%	1.43%	0.00%								
INVESTORS EXCHANGE (IEXG)	2.86%	2.86%	0.00%	0.00%	0.00%								
JPMX (JPMX)	1.43%	0.00%	100.00%	1.43%	100.00%								
NYSE ARCA (ARCX)	1.43%	1.43%	200.00%	0.00%	200.00%								
NASDAQ/N GS (GLOBAL SELECT MARKET) (XNGS)	1.43%	0.00%	300.00%	1.43%	300.00%								

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Venue - Non- directed Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d 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(cent s per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cen ts per hundred shares)
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	1.43%	1.43%	400.00%	0.00%	400.00%								
LEVEL ATS (LEVL)	1.43%	1.43%	500.00%	0.00%	500.00%								
NASDAQ OMX BX (XBOS)	1.43%	1.43%	600.00%	0.00%	600.00%								

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2nd Quarter, 2022

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Non S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orders	Market Orders as %     of     Non- Directed Orders	Marketable Limit Orders as % of NonDirected Orders	Non- Marketable Limit Orders as % of NonDirected Orders	Other Orders as % of Non- Directed Orders
100%	50.21%	0%	49.79%	0%

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
	47.69%	48%	0.00%	0%	0%								
NYSE ARCA (ARCX)	13.76%	1%	0.00%	13%	0%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	9.32%	1%	0.00%	9%	0%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	6.70%	0%	0.00%	6%	0%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	4.07%	0%	0.00%	4%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred
								D)	hundred shares)				shares)
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	4.06%	0%	0.00%	4%	0%								
MEMX LLC EQUITIES (MEMX)	3.44%	0%	0.00%	3%	0%								
FIDELITY CROSSSTREAM ATS (XSTM)	3.04%	0%	0.00%	3%	0%								
NASDAQ - ALL MARKETS (XNAS)	1.69%	0%	0.00%	2%	0%								
NYSE MKT LLC (XASE)	0.53%	0%	0.00%	1%	0%								
NASDAQ OMX PSX (XPSX)	0.47%	0%	0.00%	0%	0%								
INVESTORS EXCHANGE (IEXG)	0.45%	0%	0.00%	0%	0%								
JANE STREET JX (JSJX)	0.42%	0%	0.00%	0%	0%								
UBS ATS (UBSA)	0.40%	0%	0.00%	0%	0%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.33%	0%	0.00%	0%	0%								
NASDAQ OMX BX (XBOS)	0.31%	0%	0.00%	0%	0%								
LEVEL ATS (LEVL)	0.31%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
CITADEL SECURITIES (CDED)	0.31%	0%	0.00%	0%	0%								
CREDIT SUISSE AES CROSSFINDER (CAES)	0.27%	0%	0.00%	0%	0%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	0.25%	0%	0.00%	0%	0%								
MIAX PEARL EQUITIES (EPRL)	0.24%	0%	0.00%	0%	0%								
NYSE NATIONAL, INC. (XCIS)	0.21%	0%	0.00%	0%	0%								
KNIGHT LINK (KNLI)	0.20%	0%	0.00%	0%	0%								
NASDAQ OMX PHLX (XPHL)	0.19%	0%	0.00%	0%	0%								
SIGMA X2 (SGMT)	0.19%	0%	0.00%	0%	0%								
JPMX (JPMX)	0.15%	0%	0.00%	0%	0%								
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	0.13%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS	0.13%	0%	0.00%	0%	0%				shares)				
(BAML)  VIRTU MATCHIT  - MAIN  CROSSING  SESSION  (VFMI)	0.13%	0%	0.00%	0%	0%								
INSTINET CBX (US) (ICBX)	0.12%	0%	0.00%	0%	0%								
#N/A	0.11%	0%	0.00%	0%	0%								
BARCLAYS ATS (BARX)	0.10%	0%	0.00%	0%	0%								
BNPP CORTEX ATS (BNPC)	0.08%	0%	0.00%	0%	0%								
SANTIAGO STOCK EXCHANGE (XSGO)	0.05%	0%	0.00%	0%	0%								
MS POOL (MSPL)	0.03%	0%	0.00%	0%	0%								
POSIT (ITGI)	0.03%	0%	0.00%	0%	0%								
BIDS TRADING L.P. (BIDS)	0.02%	0%	0.00%	0%	0%								
NYSE CHICAGO, INC. (XCHI)	0.02%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketab le Limit Orders (%)	NonMarketa ble Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cents per hundred shares)	Net Payment Paid/ Received for Marketable Limit Orders(US D)	Net Payment Paid/ Received for Marketable Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(USD)	Net Payment Paid/ Received for NonMarketa ble Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD )	Net Payment Paid/ Received for Other Orders(ce nts per hundred shares)
CODA MARKETS - MICRO AND BLOCK (CODA)	0.01%	0%	0.00%	0%	0%								
INTELLIGENTCR OSS ASPEN INTELLIGENT BID/OFFER (ASPN)	0.01%	0%	0.00%	0%	0%								
INTELLIGENTCR OSS (INCR)	0.01%	0%	0.00%	0%	0%								
GOLDMAN SACHS AND CO. (GSCO)	0.01%	0%	0.00%	0%	0%								
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	0.01%	0%	0.00%	0%	0%								
TWO SIGMA SECURITIES, LLC (SOHO)	0.01%	0%	0.00%	0%	0%								
INSTINET DESK CROSS (INCA)	0.00%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRTX)	0.00%	0%	0.00%	0%	0%								