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4th Quarter, 2023

October 2023

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%	61.29%	0%	38.71%	0%

Venue - Non- directe d Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketabl e Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cent s 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 NonMarketabl e Limit Orders(USD)	Net Payment Paid/ Received for NonMarketabl e Limit Orders(cents per hundred shares)	Net Payment Paid/Receive d for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cent s per hundred shares)
	100.00%	61.29%	0.00%	38.71%	0.00%								

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4th Quarter, 2023

October 2023

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%	74.47%	0%	25.53%	0%

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4th Quarter, 2023

October 2023

Venue - Non- directed Order Flow	NonDirecte d Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
	67.01%	54%	0.00%	13%	0%								
NYSE ARCA (ARCX)	6.08%	4%	0.00%	2%	0%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	4.64%	3%	0.00%	1%	0%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	4.50%	4%	0.00%	0%	0%								
ONECHRONOS (CGXS)	4.13%	4%	0.00%	0%	0%								
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	3.67%	1%	0.00%	3%	0%								
MEMX LLC EQUITIES (MEMX)	2.09%	1%	0.00%	1%	0%								
CITI-ONE (ONEC)	1.71%	2%	0.00%	0%	0%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	1.33%	0%	0.00%	1%	0%								
NASDAQ - ALL MARKETS (XNAS)	1.15%	0%	0.00%	1%	0%								

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Venue - Non- directed Order Flow	NonDirecte d Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
MIAX PEARL EQUITIES (EPRL)	0.52%	0%	0.00%	1%	0%								
UBS ATS (UBSA)	0.28%	0%	0.00%	0%	0%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	0.26%	0%	0.00%	0%	0%								
FIDELITY CROSSSTREAM ATS (XSTM)	0.22%	0%	0.00%	0%	0%								
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	0.21%	0%	0.00%	0%	0%								
LEVEL ATS (LEVL)	0.20%	0%	0.00%	0%	0%								
INVESTORS EXCHANGE (IEXG)	0.18%	0%	0.00%	0%	0%								
TORONTO STOCK EXCHANGE (XTSE)	0.18%	0%	0.00%	0%	0%								
CITADEL SECURITIES (CDED)	0.18%	0%	0.00%	0%	0%								
KNIGHT LINK (KNLI)	0.16%	0%	0.00%	0%	0%								
NYSE MKT LLC (XASE)	0.13%	0%	0.00%	0%	0%								
NASDAQ OMX PSX (XPSX)	0.12%	0%	0.00%	0%	0%								

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4th Quarter, 2023

Venue - Non- directed Order Flow	NonDirecte d Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
NASDAQ OMX BX (XBOS)	0.11%	0%	0.00%	0%	0%								
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS (BAML)	0.10%	0%	0.00%	0%	0%								
JANE STREET JX (JSJX)	0.09%	0%	0.00%	0%	0%								
JPMX (JPMX)	0.09%	0%	0.00%	0%	0%								
BARCLAYS ATS (BARX)	0.09%	0%	0.00%	0%	0%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.09%	0%	0.00%	0%	0%								
SIGMA X2 (SGMT)	0.06%	0%	0.00%	0%	0%								
SANTIAGO STOCK EXCHANGE (XSGO)	0.06%	0%	0.00%	0%	0%								
VIRTU MATCHIT - MAIN CROSSING SESSION (VFMI)	0.05%	0%	0.00%	0%	0%								
NYSE NATIONAL, INC. (XCIS)	0.05%	0%	0.00%	0%	0%								
POSIT (ITGI)	0.04%	0%	0.00%	0%	0%								
TOWER RESEARCH	0.03%	0%	0.00%	0%	0%								

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4th Quarter, 2023

Venue - Non- directed Order Flow	NonDirecte d Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le Limit Orders(cents per hundred shares)	Net Payment Paid/Receiv ed for Other Orders(USD)	Net Paid/ Paid/ Received for Other Orders(cen ts per hundred shares)
CAPITAL TRCX (TRCX)													
XTX DIRECT (XTXD)	0.02%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRT) (HRTF)	0.02%	0%	0.00%	0%	0%								
TWO SIGMA SECURITIES, LLC (SOHO)	0.02%	0%	0.00%	0%	0%								
INSTINET CBX (US) (ICBX)	0.02%	0%	0.00%	0%	0%								
#N/A	0.02%	0%	0.00%	0%	0%								
EURONEXT - EURONEXT AMSTERDAM (XAMS)	0.01%	0%	0.00%	0%	0%								
LONDON STOCK EXCHANGE (XLON)	0.01%	0%	0.00%	0%	0%								
BNPP CORTEX ATS (BNPC)	0.01%	0%	0.00%	0%	0%								
NASDAQ OMX PHLX (XPHL)	0.01%	0%	0.00%	0%	0%								
ALPHA EXCHANGE (XATS)	0.01%	0%	0.00%	0%	0%								
NEO EXCHANGE - NEO-L (MARKET BY ORDER) (NEOE)	0.01%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirecte d Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)	0.01%	0%	0.00%	0%	0%								
CHI-X CANADA ATS (CHIC)	0.01%	0%	0.00%	0%	0%								
SIX SWISS EXCHANGE (XSWX)	0.00%	0%	0.00%	0%	0%								
CBOE EUROPE - BXE ORDER BOOKS (BATE)	0.00%	0%	0.00%	0%	0%								
CBOE EUROPE - CXE ORDER BOOKS (CHIX)	0.00%	0%	0.00%	0%	0%								
INTELLIGENTCRO SS (INCR)	0.00%	0%	0.00%	0%	0%								
CANADIAN SECURITIES EXCHANGE - PURE (PURE)	0.00%	0%	0.00%	0%	0%								
AQUIS EXCHANGE PLC (AQXE)	0.00%	0%	0.00%	0%	0%								
CBOE EUROPE - BXE PERIODIC (BATP)	0.00%	0%	0.00%	0%	0%								

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4th Quarter, 2023

November 2023

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%	29.41%	0%	70.59%	0%

Venue - Non- directe d Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketabl e 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 NonMarketabl e Limit Orders(USD)	Net Payment Paid/ Received for NonMarketabl e Limit Orders(cents per hundred shares)	Net Payment Paid/Receive d for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cent s per hundred shares)
	100.00%	29.41%	0.00%	70.59%	0.00%								

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4th Quarter, 2023

November 2023

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%	85.53%	0%	14.47%	0%

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
	77.91%	73%	0.00%	5%	0%								
NYSE ARCA (ARCX)	4.45%	3%	0.00%	1%	0%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	3.34%	2%	0.00%	1%	0%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	2.65%	3%	0.00%	0%	0%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	1.73%	0%	0.00%	2%	0%								

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4th Quarter, 2023

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Paid/ Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
ONECHRONOS (CGXS)	1.40%	1%	0.00%	0%	0%								
NASDAQ - ALL MARKETS (XNAS)	1.29%	0%	0.00%	1%	0%								
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	1.17%	0%	0.00%	1%	0%								
MEMX LLC EQUITIES (MEMX)	1.14%	1%	0.00%	0%	0%								
FIDELITY CROSSSTREAM ATS (XSTM)	0.69%	1%	0.00%	0%	0%								
NASDAQ OMX BX (XBOS)	0.51%	0%	0.00%	0%	0%								
UBS ATS (UBSA)	0.44%	0%	0.00%	0%	0%								
MIAX PEARL EQUITIES (EPRL)	0.43%	0%	0.00%	0%	0%								
BOLSA MEXICANA DE VALORES (MEXICAN STOCK EXCHANGE) (XMEX)	0.34%	0%	0.00%	0%	0%								
SIGMA X2 (SGMT)	0.27%	0%	0.00%	0%	0%								

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4th Quarter, 2023

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	0.25%	0%	0.00%	0%	0%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	0.24%	0%	0.00%	0%	0%								
NASDAQ OMX PHLX (XPHL)	0.16%	0%	0.00%	0%	0%								
NYSE NATIONAL, INC. (XCIS)	0.14%	0%	0.00%	0%	0%								
LEVEL ATS (LEVL)	0.13%	0%	0.00%	0%	0%								
CITADEL SECURITIES (CDED)	0.13%	0%	0.00%	0%	0%								
CITI-ONE (ONEC)	0.12%	0%	0.00%	0%	0%								
INVESTORS EXCHANGE (IEXG)	0.12%	0%	0.00%	0%	0%								
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS (BAML)	0.12%	0%	0.00%	0%	0%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.10%	0%	0.00%	0%	0%								

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4th Quarter, 2023

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
NASDAQ OMX PSX (XPSX)	0.09%	0%	0.00%	0%	0%								
TOWER RESEARCH CAPITAL TRCX (TRCX)	0.09%	0%	0.00%	0%	0%								
NYSE MKT LLC (XASE)	0.08%	0%	0.00%	0%	0%								
JPMX (JPMX)	0.06%	0%	0.00%	0%	0%								
JANE STREET JX (JSJX)	0.05%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRT) (HRTF)	0.05%	0%	0.00%	0%	0%								
XTX DIRECT (XTXD)	0.05%	0%	0.00%	0%	0%								
BOLSA INSTITUCIONAL DE VALORES (BIVA)	0.04%	0%	0.00%	0%	0%								
VIRTU MATCHIT - MAIN CROSSING SESSION (VFMI)	0.04%	0%	0.00%	0%	0%								
KNIGHT LINK (KNLI)	0.04%	0%	0.00%	0%	0%								
BARCLAYS ATS (BARX)	0.03%	0%	0.00%	0%	0%								
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	0.03%	0%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
POSIT (ITGI)	0.02%	0%	0.00%	0%	0%								
EURONEXT - EURONEXT AMSTERDAM (XAMS)	0.02%	0%	0.00%	0%	0%								
TORONTO STOCK EXCHANGE (XTSE)	0.02%	0%	0.00%	0%	0%								
INSTINET CBX (US) (ICBX)	0.02%	0%	0.00%	0%	0%								
LONDON STOCK EXCHANGE (XLON)	0.01%	0%	0.00%	0%	0%								
INTELLIGENTCRO SS (INCR)	0.01%	0%	0.00%	0%	0%								
BNPP CORTEX ATS (BNPC)	0.01%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING - SYSTEMATIC INTERNALISER (HRSI)	0.00%	0%	0.00%	0%	0%								
#N/A	0.00%	0%	0.00%	0%	0%								
MS POOL (MSPL)	0.00%	0%	0.00%	0%	0%								

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December 2023

S&P 500 Stocks

Summary

Non-Directed Orders as % of All Orde	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%	50.00%	0%	50.00%	0%

Venue - Non- directe d Order Flow	Non Directed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketabl e Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receive d for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cent s 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 NonMarketabl e Limit Orders(USD)	Net Payment Paid/ Received for NonMarketabl e Limit Orders(cents per hundred shares)	Net Payment Paid/Receive d for Other Orders(USD)	Net Payment Paid/ Received for Other Orders(cent s per hundred shares)
	100.00%	50.00%	0.00%	50.00%	0.00%								

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December 2023

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%	86.12%	0%	13.88%	0%

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
	40.42%	37%	0.00%	4%	0%								
NASDAQ/NGS (GLOBAL SELECT MARKET) (XNGS)	11.50%	11%	0.00%	0%	0%								
NYSE ARCA (ARCX)	10.42%	10%	0.00%	1%	0%								
CBOE BZX U.S. EQUITIES EXCHANGE (BATS)	9.08%	7%	0.00%	2%	0%								
CITI-ONE (ONEC)	6.64%	7%	0.00%	0%	0%								
ONECHRONOS (CGXS)	5.99%	6%	0.00%	0%	0%								

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Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Payment Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
CBOE EDGX U.S. EQUITIES EXCHANGE (EDGX)	3.80%	2%	0.00%	2%	0%								
MEMX LLC EQUITIES (MEMX)	2.34%	1%	0.00%	1%	0%								
NEW YORK STOCK EXCHANGE, INC. (XNYS)	2.19%	1%	0.00%	1%	0%								
FIDELITY CROSSSTREAM ATS (XSTM)	1.42%	1%	0.00%	0%	0%								
NASDAQ - ALL MARKETS (XNAS)	1.34%	0%	0.00%	1%	0%								
LONDON STOCK EXCHANGE (XLON)	0.91%	1%	0.00%	0%	0%								
MIAX PEARL EQUITIES (EPRL)	0.62%	0%	0.00%	0%	0%								
CBOE EUROPE - CXE ORDER BOOKS (CHIX)	0.37%	0%	0.00%	0%	0%								
UBS ATS (UBSA)	0.28%	0%	0.00%	0%	0%								
INVESTORS EXCHANGE (IEXG)	0.26%	0%	0.00%	0%	0%								
NYSE MKT LLC (XASE)	0.24%	0%	0.00%	0%	0%								

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4th Quarter, 2023

Venue - Non- directed Order Flow	NonDirect ed Orders (%)	Market Orders (%)	Marketabl e Limit Orders (%)	NonMarketab le Limit Orders (%)	Other Orders (%)	Net Payment Paid/Receiv ed for Market Orders(USD)	Net Payment Paid/ Received for Market Orders(cen ts per hundred shares)	Net Paid/ Received for Marketabl e Limit Orders(US D)	Net Payment Paid/ Received for Marketabl e Limit Orders(cen ts per hundred shares)	Net Payment Paid/ Received for NonMarketab le Limit Orders(USD)	Net Payment Paid/ Received for NonMarketab le 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)
NASDAQ OMX PHLX (XPHL)	0.23%	0%	0.00%	0%	0%								
CBOE EDGA U.S. EQUITIES EXCHANGE (EDGA)	0.22%	0%	0.00%	0%	0%								
CBOE BYX U.S. EQUITIES EXCHANGE (BATY)	0.18%	0%	0.00%	0%	0%								
NASDAQ OMX BX (XBOS)	0.17%	0%	0.00%	0%	0%								
NYSE NATIONAL, INC. (XCIS)	0.13%	0%	0.00%	0%	0%								
OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS (XOFF)	0.13%	0%	0.00%	0%	0%								
NASDAQ OMX PSX (XPSX)	0.12%	0%	0.00%	0%	0%								
LEVEL ATS (LEVL)	0.12%	0%	0.00%	0%	0%								
BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS (BAML)	0.11%	0%	0.00%	0%	0%								
SIGMA X2 (SGMT)	0.11%	0%	0.00%	0%	0%								

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CITADEL SECURITIES (CDED)	0.09%	0%	0.00%	0%	0%								
BOLSA DE VALENCIA (XVAL)	0.08%	0%	0.00%	0%	0%								
JPMX (JPMX)	0.08%	0%	0.00%	0%	0%								
SANTIAGO STOCK EXCHANGE (XSGO)	0.06%	0%	0.00%	0%	0%								
INSTINET CBX (US) (ICBX)	0.05%	0%	0.00%	0%	0%								
KNIGHT LINK (KNLI)	0.05%	0%	0.00%	0%	0%								
BARCLAYS ATS (BARX)	0.03%	0%	0.00%	0%	0%								
VIRTU MATCHIT - MAIN CROSSING SESSION (VFMI)	0.03%	0%	0.00%	0%	0%								
INTELLIGENTCRO SS (INCR)	0.02%	0%	0.00%	0%	0%								
JANE STREET JX (JSJX)	0.02%	0%	0.00%	0%	0%								
MS POOL (MSPL)	0.02%	0%	0.00%	0%	0%								
TOWER RESEARCH	0.02%	0%	0.00%	0%	0%								

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CAPITAL TRCX (TRCX)													
POSIT (ITGI)	0.01%	0%	0.00%	0%	0%								
XTX DIRECT (XTXD)	0.01%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRTX)	0.01%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING (HRT) (HRTF)	0.01%	0%	0.00%	0%	0%								
BNPP CORTEX ATS (BNPC)	0.01%	0%	0.00%	0%	0%								
TORONTO STOCK EXCHANGE (XTSE)	0.01%	0%	0.00%	0%	0%								
CBOE EUROPE - BXE ORDER BOOKS (BATE)	0.01%	0%	0.00%	0%	0%								
#N/A	0.01%	0%	0.00%	0%	0%								
CLEARPOOL EXECUTION SERVICES, LLC (CPGX)	0.01%	0%	0.00%	0%	0%								
CBOE EUROPE - BXE PERIODIC (BATP)	0.00%	0%	0.00%	0%	0%								
AQUIS EXCHANGE PLC (AQXE)	0.00%	0%	0.00%	0%	0%								

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CBOE EUROPE - CXE DARK ORDER BOOK (CHID)	0.00%	0%	0.00%	0%	0%								
SIX SWISS EXCHANGE (XSWX)	0.00%	0%	0.00%	0%	0%								
HUDSON RIVER TRADING - SYSTEMATIC INTERNALISER (HRSI)	0.00%	0%	0.00%	0%	0%								
CITADEL CONNECT EUROPE (CCEU)	0.00%	0%	0.00%	0%	0%								
TURQUOISE (TRQX)	0.00%	0%	0.00%	0%	0%								
EURONEXT - EURONEXT AMSTERDAM (XAMS)	0.00%	0%	0.00%	0%	0%								
BOLSA DE VALORES DE SAO PAULO (XBSP)	0.00%	0%	0.00%	0%	0%								