GFIS - Held NMS Stocks and Options Order Routing Public Report

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4th Quarter, 2021

October 2021

S&P 500 Stocks

Summary

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

Venues

Venue - Non- directed Order Flow	Non- Directed Orders Orders (%) (%)	Marketable Limit Orders (%)	mit Orders Mark	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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Material Aspects:

October 2021

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 Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
I	0.00	0.00	0.00	0.00	0.00

Venues

Venue -	Non-	Market	Marketable	Non-	Other	Net Payment	Net Payment Paid/	Net Payment Paid/	Net Payment Paid/	Net Payment Paid/	Net Payment Paid/	Net Payment	Net Payment Paid/
Non-	Directed	Orders	Limit Orders	Marketable	Orders	Paid/Received for	Received for Market	Received for	Received for	Received for Non-	Received for Non-	Paid/Received for	Received for Other
directed	Orders (%)	(%)	(%)	Limit Orders	(%)	Market	Orders(cents per	Marketable Limit	Marketable Limit	Marketable Limit	Marketable Limit	Other	Orders(cents per
Order				(%)		Orders(USD)	hundred shares)	Orders(USD)	Orders(cents per	Orders(USD)	Orders(cents per	Orders(USD)	hundred shares)
Flow									hundred shares)		hundred shares)		

Material Aspects:

October 2021

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	0.00	0.00	0.00	100.00

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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)
Nasdaq ISE (XISX)	27.99	0.00	0.00	0.00	27.99	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-7,464.8514	-0.3237
ISE Options (ISE)	13.85	0.00	0.00	0.00	13.85	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CBOE Exchange (XCBO)	12.16	0.00	0.00	0.00	12.16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-2,718.6000	-3.3148
NYSE American (AMEX)	11.68	0.00	0.00	0.00	11.68	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
XPSE (XPSE)	7.79	0.00	0.00	0.00	7.79	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-858.6000	-5.0000
Nasdaq OMX PHLX (PHLX)	4.96	0.00	0.00	0.00	4.96	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C2 Options Exchange, Inc. (C2OX)	3.82	0.00	0.00	0.00	3.82	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-1,067.0500	-5.0000
Miami Intl Exchange (XMIO)	3.07	0.00	0.00	0.00	3.07	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-290.9000	-5.0000
BOX Exchange (XBOX)	2.15	0.00	0.00	0.00	2.15	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-411.1000	-5.0000
Nasdaq GEMX, LLC (GMNI)	1.98	0.00	0.00	0.00	1.98	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-294.6500	-5.0000

Material Aspects:

November 2021

S&P 500 Stocks

Summary

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

Venues

Venue - Non- directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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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Material Aspects:

November 2021

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 Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
1	0.00	0.00	0.00	0.00	0.00

Venues

Venue -	Non-	Market	Marketable	Non-	Other	Net Payment	Net Payment Paid/	Net Payment Paid/	Net Payment Paid/	Net Payment Paid/	Net Payment Paid/	Net Payment	Net Payment Paid/
Non-	Directed	Orders	Limit Orders	Marketable	Orders	Paid/Received for	Received for Market	Received for	Received for	Received for Non-	Received for Non-	Paid/Received for	Received for Other
directed	Orders (%)	(%)	(%)	Limit Orders	(%)	Market	Orders(cents per	Marketable Limit	Marketable Limit	Marketable Limit	Marketable Limit	Other	Orders(cents per
Order				(%)		Orders(USD)	hundred shares)	Orders(USD)	Orders(cents per	Orders(USD)	Orders(cents per	Orders(USD)	hundred shares)
Flow				` '		, ,		, ,	hundred shares)	, ,	hundred shares)	, ,	ŕ

Material Aspects:

November 2021

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	0.00	0.00	0.00	100.00

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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)
Nasdaq ISE (XISX)	30.73	0.00	0.00	0.00	30.73	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	4,580.1495	0.2750
	11.39	0.00	0.00	0.00	11.39	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-3,137.3500	-3.4016

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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)
CBOE Exchange (XCBO)													
ISE Options (ISE)	10.16	0.00	0.00	0.00	10.16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYSE American (AMEX)	9.66	0.00	0.00	0.00	9.66	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
XPSE (XPSE)	8.93	0.00	0.00	0.00	8.93	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-947.1500	-5.2564
Nasdaq OMX PHLX (PHLX)	4.91	0.00	0.00	0.00	4.91	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
C2 Options Exchange, Inc. (C2OX)	4.81	0.00	0.00	0.00	4.81	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-1,087.9000	-5.0000
Miami Intl Exchange (XMIO)	2.80	0.00	0.00	0.00	2.80	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-213.4000	-5.0000
BOX Exchange (XBOX)	2.40	0.00	0.00	0.00	2.40	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-440.0000	-5.0000
Nasdaq GEMX, LLC (GMNI)	2.01	0.00	0.00	0.00	2.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-413.3000	-5.0182

Material Aspects:

December 2021

S&P 500 Stocks

Summary

	Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders	
Ì	0.00	0.00	0.00	0.00	0.00	

Venues

Venue - Non- directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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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Material Aspects:

December 2021

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 Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders	
1	0.00	0.00	0.00	0.00	0.00	

Venues

Venue - Non- directed Order Flow	Non- Directed Orders Orders (%) (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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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Material Aspects:

December 2021

Options

Summary

Non-Directed Orders as % of All Orders	Market Orders as % of Non-Directed Orders	Marketable Limit Orders as % of Non- Directed Orders	Non-Marketable Limit Orders as % of Non- Directed Orders	Other Orders as % of Non-Directed Orders
100.00	0.00	0.00	0.00	100.00

Venues

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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)
Nasdaq ISE (XISX)	33.70	0.00	0.00	0.00	33.70	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	812.5490	0.0503
ISE Options (ISE)	16.58	0.00	0.00	0.00	16.58	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NYSE American (AMEX)	10.24	0.00	0.00	0.00	10.24	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CBOE Exchange (XCBO)	9.16	0.00	0.00	0.00	9.16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-1,969.8500	-3.5021
Nasdaq OMX PHLX (PHLX)	6.54	0.00	0.00	0.00	6.54	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
XPSE (XPSE)	4.38	0.00	0.00	0.00	4.38	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-1,005.2500	-5.0000
C2 Options Exchange, Inc. (C2OX)	3.28	0.00	0.00	0.00	3.28	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-547.8500	-5.0000
NYSE Mkt Llc (XASE)	2.69	0.00	0.00	0.00	2.69	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-265.4500	-5.0000

Venue - Non-directed Order Flow	Non- Directed Orders (%)	Market Orders (%)	Marketable Limit Orders (%)	Non- Marketable Limit 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)
Miami Intl Exchange (XMIO)	2.35	0.00	0.00	0.00	2.35	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-247.7500	-5.0000
BOX Exchange (XBOX)	2.01	0.00	0.00	0.00	2.01	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-267.6000	-5.0000

Material Aspects: