

Goldman Sachs & Co. LLC - Held NMS Stocks and Options Order Routing Public Report

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4th Quarter, 2022

October 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 Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
0.02	1.25	8.68	65.25	24.80

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)
New York Stock Exchange LLC. (NYSE)	22.27	2.91	3.82	69.34	23.91	-14.04	-2.1400	-662.28	-26.8300	42.04	10.6900	-49.93	-12.3100
The Nasdaq Stock Market LLC. (XNAS)	22.26	2.53	9.14	57.42	30.89	-21.79	-3.5100	-776.28	-11.2300	916.27	27.2300	-182.57	-24.7100
NASDAQ OMX PSX (PSX)	10.64	0.00	0.00	98.96	1.03	0.00	0.0000	0.00	0.0000	-5.41	-17.5500	0.00	0.0000
CBOE BZX Exchange (BATS)	9.95	0.00	11.47	76.39	12.12	0.00	0.0000	-1,990.80	-29.4600	473.64	18.2300	-355.84	-29.5300
NYSE Arca, Inc. (ARCA)	5.98	0.00	6.06	82.25	11.67	0.00	0.0000	-371.81	-29.9900	78.61	20.2300	-1.48	-0.5400
Members Exchange (MEMX)	5.30	0.00	0.00	99.31	0.68	0.00	0.0000	0.00	0.0000	-10.20	-28.3500	0.00	0.0000
NASDAQ OMX BX. (BOSE)	5.15	0.00	43.55	20.87	35.56	0.00	0.0000	9.02	2.4100	-987.12	-29.9800	-41.79	-17.8500
Investors Exchange LLC (IEXG)	4.21	0.00	13.22	27.91	58.86	0.00	0.0000	-86.89	-6.4800	-4.16	-0.2100	-15.11	-4.7200
CBOE EDGA Exchange (EDGA)	3.47	0.00	19.83	42.64	37.51	0.00	0.0000	125.80	18.7300	-1,092.44	-29.6500	17.56	8.1300
CBOE BYX Exchange (BATY)	2.07	0.00	2.89	52.62	44.47	0.00	0.0000	3.55	1.8300	-23.51	-15.7100	-17.64	-15.0400

Material Aspects:

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

NASDAQ OMX PSX (PSX):

PSX has a tiered pricing/payment schedule. For detailed information, please see the exchanges public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting PSX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

CBOE BZX Exchange (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

Members Exchange (MEMX):

An investment entity affiliate of GSCO has a minority, non-controlling ownership interest in MEMX. MEMX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://info.memxtrading.com/fee-schedule/>
Information reflecting MEMX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

CBOE EDGA Exchange (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

CBOE BYX Exchange (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

October 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 Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
0.03	1.40	8.46	55.06	35.06

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)
New York Stock Exchange LLC. (NYSE)	16.34	2.55	2.88	70.38	24.18	-47.70	-2.1300	-1,578.70	-16.6800	91.48	4.7200	-312.53	-23.0900
The Nasdaq Stock Market LLC. (XNAS)	16.25	2.77	10.37	53.82	33.02	-79.04	-3.5500	-2,143.65	-29.5700	1,128.65	10.7400	-1,217.45	-23.4300
NYSE Arca, Inc. (ARCA)	12.75	2.40	3.82	56.03	37.72	-201.01	-15.0000	-1,120.30	-27.1900	246.19	10.6500	-1,352.28	-19.4900
CBOE BZX Exchange (BATS)	9.63	0.11	13.04	62.95	23.88	-7.73	-7.5000	-6,184.72	-29.5000	-349.22	-7.1400	-4,297.94	-29.3300
NASDAQ OMX PSX (PSX)	7.42	0.00	0.00	98.51	1.48	0.00	0.0000	0.00	0.0000	-10.67	-12.6000	-0.14	-11.3500
NASDAQ OMX BX. (BOSE)	6.71	0.00	34.58	18.21	47.20	0.00	0.0000	42.32	3.2500	-420.45	-29.9400	21.37	1.4000
CBOE EDGA Exchange (EDGA)	4.81	0.00	17.34	32.52	50.12	0.00	0.0000	353.99	16.9300	-375.39	-27.1800	186.77	6.6400
Investors Exchange LLC (IEXG)	4.36	0.00	9.75	31.95	58.29	0.00	0.0000	-121.38	-7.0300	-7.72	-0.6600	-79.52	-3.6000
Members Exchange (MEMX)	4.20	0.00	0.00	97.23	2.76	0.00	0.0000	0.00	0.0000	-89.77	-27.4100	-4.92	-26.8200
CBOE BYX Exchange (BATY)	3.05	0.00	2.21	45.56	52.22	0.00	0.0000	10.39	1.7700	-240.51	-19.0900	-129.86	-9.7200

Material Aspects:

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

CBOE BZX Exchange (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

NASDAQ OMX PSX (PSX):

PSX has a tiered pricing/payment schedule. For detailed information, please see the exchanges public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting PSX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

CBOE EDGA Exchange (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

Members Exchange (MEMX):

An investment entity affiliate of GSCO has a minority, non-controlling ownership interest in MEMX. MEMX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://info.memxtrading.com/fee-schedule/>
Information reflecting MEMX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

CBOE BYX Exchange (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202210.xlsx

October 2022

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
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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
0.16	0.10	5.21	62.98	31.69

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)
NYSE Arca, Inc. (PCOE)	73.86	0.01	0.28	67.92	31.77	-14,742.19	-31.0800	-23,338.03	-52.4900	106,754.78	41.3200	-10,416.63	-15.4200
CBOE BZX Options Exchange (BATO)	6.42	0.00	15.71	84.27	0.00	0.00	0.0000	-113,011.65	-56.3900	21,052.40	18.7100	-95.35	-38.9100
NASDAQ Options Market LLC (NDOE)	5.81	0.00	11.84	88.14	0.01	0.00	0.0000	-77,888.34	-49.5300	10,431.71	20.0900	-103.77	-29.2300
Nasdaq ISE, LLC (ISOE)	3.18	0.54	4.02	5.61	89.82	8,074.80	7.4500	-14,837.06	-39.9800	4,370.24	9.3100	22,319.59	22.5400
CBOE Options Exchange (XCBO)	2.80	1.39	13.36	21.71	63.52	-20,659.14	-33.1000	-21,995.61	-25.5000	-31,766.02	-26.6500	-10,170.67	-19.2400
NYSE American LLC (AMEX)	1.49	0.61	12.93	8.38	78.06	0.00	0.0000	-485.62	-1.7500	-730.22	-2.6200	-1,068.75	-6.1300
NASDAQ BX Options (XBOX)	1.30	0.63	55.55	9.16	34.64	3,619.80	37.6900	20,450.10	23.9800	-305.55	-1.0100	5,296.00	49.7700
CBOE EDGO Exchange (EDGO)	1.09	0.68	23.47	11.27	64.56	3,648.96	28.6300	-1,228.58	-1.6300	-813.99	-3.3900	3,524.11	33.6300
Nasdaq PHLX, LLC (PHLX)	1.01	0.84	10.63	11.61	76.90	-17.70	-0.1000	-2,165.63	-7.7700	-847.59	-3.2400	-721.51	-2.5500
NASDAQ BX Options (NBXO)	0.95	0.00	74.61	25.36	0.02	0.00	0.0000	-48,786.34	-37.6500	6,108.17	22.4900	121.68	55.5600

Material Aspects:

NYSE Arca, Inc. (PCOE):

PCOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Information reflecting the PCOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

CBOE BZX Options Exchange (BATO):

BATO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

Information reflecting the BATO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:

<https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

Nasdaq ISE, LLC (ISOE):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

ISOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

CBOE Options Exchange (XCBO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

XCBO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Information reflecting the XCBO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

NYSE American LLC (AMEX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

AMEX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Information reflecting the AMEX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

NASDAQ BX Options (XBOX):

XBOX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://boxoptions.com/regulatory/fee-schedule/>

Information reflecting the XBOX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

CBOE EDGO Exchange (EDGO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

EDGO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/options/membership/fee_schedule/edgo/

Information reflecting the EDGO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

Nasdaq PHLX, LLC (PHLX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

PHLX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the PHLX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

NASDAQ BX Options (NBXO):

NBXO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-options-7>

Information reflecting the NBXO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202210.xlsx

November 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 Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
0.02	2.05	20.94	37.55	39.43

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)
The Nasdaq Stock Market LLC. (XNAS)	28.46	2.96	18.41	36.36	42.24	-23.18	-3.3100	-1,055.59	-29.6800	186.72	28.3800	-163.84	-20.3000
New York Stock Exchange LLC. (NYSE)	23.59	4.60	8.01	49.61	37.76	-22.48	-2.4700	-496.58	-26.9700	65.94	16.9300	-116.28	-10.7600
NASDAQ OMX BX. (BOSE)	11.26	0.00	54.29	14.64	31.06	0.00	0.0000	5.51	1.2200	-127.80	-29.8100	-8.73	-5.5400
Investors Exchange LLC (IEXG)	7.19	0.00	21.00	24.20	54.78	0.00	0.0000	-105.98	-8.0800	-1.87	-0.4400	-18.60	-5.2300
CBOE BZX Exchange (BATS)	6.06	0.00	36.66	30.81	32.51	0.00	0.0000	-1,763.72	-29.4300	287.68	22.3500	-285.88	-28.6400
CBOE EDGA Exchange (EDGA)	5.43	0.00	27.37	44.32	28.29	0.00	0.0000	147.71	19.2000	-62.49	-29.7900	37.72	19.2000
NYSE Arca, Inc. (ARCA)	4.32	0.00	17.34	49.52	33.13	0.00	0.0000	-289.03	-30.0000	61.33	28.1800	-42.11	-29.3900
CBOE BYX Exchange (BATY)	2.94	0.00	4.00	56.66	39.32	0.00	0.0000	2.69	1.9800	-58.67	-19.9700	-28.18	-15.2900
CBOE EDGX Exchange (EDGX)	2.57	0.00	25.25	38.12	36.62	0.00	0.0000	-402.85	-30.0000	57.05	15.8300	-28.26	-20.0500
Nasdaq PHLX, LLC (XPHL)	2.21	0.00	36.91	30.13	32.95	0.00	0.0000	-304.59	-30.0000	29.70	31.8200	-41.41	-24.3500

Material Aspects:

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE BZX Exchange (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE EDGA Exchange (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE BYX Exchange (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE EDGX Exchange (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

November 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 Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
0.02	1.63	12.56	42.04	43.76

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)
NYSE Arca, Inc. (ARCA)	19.82	1.57	3.50	47.71	47.19	-480.53	-15.0000	-857.35	-19.6900	670.68	19.3300	-1,634.77	-15.9100
The Nasdaq Stock Market LLC. (XNAS)	18.73	2.83	14.17	38.99	43.99	-122.71	-3.3100	-2,324.80	-20.2600	749.94	10.9100	-1,287.74	-20.2600
New York Stock Exchange LLC. (NYSE)	14.56	4.33	7.47	54.24	33.94	-68.83	-2.4700	-888.97	-17.0800	1,048.56	14.8700	-361.35	-12.8300
NASDAQ OMX BX. (BOSE)	8.61	0.00	33.40	24.75	41.83	0.00	0.0000	57.54	3.2400	-784.73	-29.9800	-128.51	-6.2100
CBOE BZX Exchange (BATS)	8.39	0.24	21.71	33.49	44.55	-14.03	-7.5000	-5,738.46	-29.2300	65.61	1.5500	-3,804.89	-29.2200
Investors Exchange LLC (IEXG)	6.74	0.00	10.45	35.94	53.60	0.00	0.0000	-160.98	-7.0700	-7.21	-0.2100	-69.33	-4.6600
CBOE EDGA Exchange (EDGA)	6.24	0.00	18.39	39.47	42.13	0.00	0.0000	483.57	17.3300	-997.15	-24.7100	49.83	1.4700
CBOE BYX Exchange (BATY)	3.79	0.00	2.70	55.33	41.95	0.00	0.0000	-26.26	-2.1000	-517.63	-18.9200	-174.92	-11.6000
CBOE EDGX Exchange (EDGX)	3.54	0.00	16.49	44.32	39.17	0.00	0.0000	-1,130.74	-27.9000	616.56	10.8000	-573.37	-27.7300
Nasdaq PHLX, LLC (XPHL)	3.38	0.00	21.74	34.14	44.10	0.00	0.0000	-1,126.72	-29.9900	396.87	34.0000	-552.83	-8.9100

Material Aspects:

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE BZX Exchange (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE EDGA Exchange (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE BYX Exchange (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

CBOE EDGX Exchange (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202211.xlsx

November 2022

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
0.06	0.22	11.18	58.89	29.69

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)
NYSE Arca, Inc. (PCOE)	45.05	0.04	0.82	63.05	36.07	-14,861.39	-33.2000	-29,131.75	-52.0800	77,488.42	25.6100	-9,142.48	-11.2200
CBOE BZX	19.09	0.00	12.07	87.89	0.02	0.00	0.0000	-129,346.60	-56.1000	25,786.15	18.4100	-26.95	-5.5400

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)
Options Exchange (BATO)													
NASDAQ Options Market LLC (NDOE)	9.61	0.00	13.28	86.67	0.03	0.00	0.0000	-115,799.95	-52.2800	13,347.84	20.2700	-33.28	-12.8900
CBOE Options Exchange (XCBO)	7.58	1.42	12.71	21.84	64.02	-17,223.86	-13.7400	-31,735.00	-25.1400	-26,219.70	-24.5100	-11,968.51	-16.3900
Nasdaq ISE, LLC (ISOE)	4.66	0.69	7.27	9.01	83.01	5,744.86	1.7800	-19,885.10	-39.4100	5,456.68	12.2600	16,551.69	4.3500
NASDAQ BX Options (XBOX)	2.71	0.39	66.01	10.32	23.27	2,947.50	50.5300	34,035.90	24.1600	-340.00	-1.4300	7,058.70	23.2300
NYSE American LLC (AMEX)	2.03	0.56	23.24	12.80	63.39	-10.50	-0.1400	-1,336.92	-2.6200	-826.72	-3.0700	-1,739.75	-7.6100
NASDAQ BX Options (NBXO)	1.79	0.00	75.58	24.29	0.11	0.00	0.0000	-65,709.06	-40.9100	7,750.33	26.1400	-7.22	-5.2300
Nasdaq PHLX, LLC (PHLX)	1.66	0.94	15.15	15.92	67.97	-5.97	0.0000	-5,535.03	-12.6400	-991.33	-3.6600	-1,093.55	-1.1000
CBOE EDGO Exchange (EDGO)	1.60	0.74	29.42	16.21	53.61	2,341.33	4.6500	-867.64	-0.9600	-969.92	-3.9900	2,808.60	2.1800

Material Aspects:

NYSE Arca, Inc. (PCOE):

PCOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Information reflecting the PCOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

CBOE BZX Options Exchange (BATO):

BATO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

Information reflecting the BATO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

CBOE Options Exchange (XCBO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

XCBO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/xcbo/

Information reflecting the XCBO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

Nasdaq ISE, LLC (ISOE):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

ISOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

NASDAQ BX Options (XBOX):

XBOX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://boxoptions.com/regulatory/fee-schedule/>

Information reflecting the XBOX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

NYSE American LLC (AMEX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

AMEX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Information reflecting the AMEX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

NASDAQ BX Options (NBXO):

NBXO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-options-7>

Information reflecting the NBXO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

Nasdaq PHLX, LLC (PHLX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

PHLX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the PHLX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

CBOE EDGO Exchange (EDGO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

EDGO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/options/membership/fee_schedule/edgo/

Information reflecting the EDGO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202211.xlsx

December 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 Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
0.02	1.45	24.35	38.89	35.29

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)
The Nasdaq Stock Market LLC. (XNAS)	28.19	2.25	22.69	37.88	37.16	-25.24	-1.8500	-1,508.68	-26.4800	34.81	15.0900	-154.90	-19.8400
New York Stock Exchange LLC. (NYSE)	23.37	2.93	9.24	49.50	38.31	-13.30	-1.4700	-701.50	-27.8300	26.14	13.3800	-147.45	-21.2400
NASDAQ OMX BX. (BOSE)	12.21	0.00	64.93	13.80	21.26	0.00	0.0000	6.44	1.1300	-44.23	-29.6500	-4.32	-3.0100
Investors Exchange LLC (IEXG)	6.35	0.00	22.86	27.40	49.72	0.00	0.0000	-129.54	-8.8100	-0.55	-0.0500	-21.65	-7.9100
CBOE EDGA Exchange (EDGA)	5.61	0.00	30.32	41.81	27.85	0.00	0.0000	191.40	19.9900	-105.75	-29.3900	40.76	18.4500
CBOE BZX Exchange (BATS)	4.86	0.00	44.89	22.96	32.13	0.00	0.0000	-2,383.79	-29.4000	26.68	6.1600	-315.47	-28.1000
NYSE Arca, Inc. (ARCA)	4.31	0.00	17.24	54.13	28.62	0.00	0.0000	-445.41	-30.0000	17.04	17.0000	-60.03	-28.8500
CBOE BYX Exchange (BATY)	3.11	0.00	4.63	58.35	37.00	0.00	0.0000	3.11	1.9900	-79.92	-20.0300	-13.77	-11.8600
CBOE EDGX Exchange (EDGX)	2.39	0.00	27.04	35.16	37.79	0.00	0.0000	-608.00	-30.0000	62.22	15.0500	-72.16	-22.7000
Nasdaq PHLX, LLC (XPHL)	2.21	0.00	38.40	29.36	32.22	0.00	0.0000	-330.81	-30.0000	13.56	24.4200	-28.38	-14.1000

Material Aspects:

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE EDGA Exchange (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE BZX Exchange (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE BYX Exchange (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE EDGX Exchange (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

Nasdaq PHILX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

December 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 Non-Directed Orders	Non-Marketable Limit Orders as % of Non-Directed Orders	Other Orders as % of Non-Directed Orders
0.03	1.09	16.86	38.48	43.55

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)
NYSE Arca, Inc. (ARCA)	21.97	1.38	5.75	44.49	48.36	-239.25	-15.0000	-1,770.48	-28.5400	116.71	6.5100	-2,062.37	-19.0500
The Nasdaq	18.20	1.94	20.67	33.07	44.30	-59.76	-1.8500	-3,420.99	-25.8000	296.69	4.0300	-1,877.70	-18.0200

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)
Stock Market LLC. (XNAS)													
New York Stock Exchange LLC. (NYSE)	11.65	2.53	8.42	52.07	36.96	-29.76	-1.4700	-1,268.44	-20.7400	784.57	12.6300	-339.63	-19.6600
NASDAQ OMX BX. (BOSE)	9.58	0.00	43.82	18.81	37.36	0.00	0.0000	62.14	3.0400	-503.02	-29.8300	19.59	0.9500
CBOE BZX Exchange (BATS)	7.45	0.50	27.60	28.79	43.09	-22.00	-7.8200	-7,797.02	-29.3300	-723.09	-13.2500	-4,965.99	-28.3300
Investors Exchange LLC (IEXG)	6.89	0.00	17.28	32.41	50.29	0.00	0.0000	-328.38	-9.0500	-23.34	-0.9200	-121.05	-2.7200
CBOE EDGA Exchange (EDGA)	6.36	0.00	24.21	36.36	39.41	0.00	0.0000	539.12	16.0800	-1,389.91	-29.2500	391.27	11.5300
CBOE BYX Exchange (BATY)	3.64	0.00	3.68	56.26	40.05	0.00	0.0000	16.50	1.6800	-475.35	-8.4700	-302.78	-13.5500
Nasdaq PHLX, LLC (XPHL)	3.56	0.00	24.79	31.10	44.10	0.00	0.0000	-1,410.03	-30.0000	479.47	33.0000	-1,546.05	-28.6600
CBOE EDGX Exchange (EDGX)	3.48	0.00	19.14	40.16	40.68	0.00	0.0000	-1,763.97	-29.1200	92.52	7.7200	-809.84	-26.6800

Material Aspects:

NYSE Arca, Inc. (ARCA):

ARCA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse-arca/NYSE_Arca_Marketplace_Fees.pdf

Information reflecting ARCA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

The Nasdaq Stock Market LLC. (XNAS):

The Firm is a Market Maker on XNAS in equities. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

XNAS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-equity-7>

Information reflecting XNAS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

New York Stock Exchange LLC. (NYSE):

The Firm is a Market Maker and Supplemental Liquidity Market Maker in equities on the NYSE. Accordingly, the Firm may share directly in any profits generated from the execution of client orders by the Firm on the exchange, including those that are routed to the exchange.

NYSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/nyse/NYSE_Price_List.pdf

Information reflecting the NYSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

NASDAQ OMX BX. (BOSE):

BOSE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-equity-7>

Information reflecting the BOSE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE BZX Exchange (BATS):

BATS has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/bzx/

Information reflecting the BATS's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE EDGA Exchange (EDGA):

EDGA has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/edga/

Information reflecting the EDGA's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE BYX Exchange (BATY):

BATY has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/byx/

Information reflecting the BATY's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

Nasdaq PHLX, LLC (XPHL):

XPHL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/phlx/rules/phlx-equity-7>

Information reflecting the XPHL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

CBOE EDGX Exchange (EDGX):

EDGX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/equities/membership/fee_schedule/edgx/

Information reflecting the EDGX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_equities_rate_card_202212.xlsx

December 2022

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
0.12	0.17	8.92	81.72	9.18

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)
NYSE Arca, Inc. (PCOE)	66.53	0.02	0.37	93.07	6.53	-14,118.66	-29.8500	-24,860.86	-59.6000	68,114.64	25.8000	-7,842.06	-15.5100
CBOE BZX Options Exchange (BATO)	10.11	0.00	8.19	91.76	0.03	0.00	0.0000	-41,966.65	-68.2700	10,875.10	9.8200	-177.00	-19.8600
NASDAQ Options	7.45	0.00	15.86	84.10	0.03	0.00	0.0000	-78,635.43	-54.0100	12,480.03	22.5100	-111.03	-21.4300

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)
Market LLC (NDOE)													
CBOE Options Exchange (XCBO)	3.33	2.73	19.29	25.20	52.75	-24,695.78	-26.9500	-32,125.87	-29.9400	-26,455.10	-25.9900	-14,283.65	-25.2600
NASDAQ BX Options (XBOX)	2.15	0.44	75.05	12.27	12.22	4,169.80	47.8000	30,364.80	22.7800	-10.25	-0.0400	4,208.40	36.2400
MIAx PEARL LLC (MPRL)	2.06	0.00	72.68	27.17	0.14	0.00	0.0000	-138,609.86	-52.0200	-1,512.47	-4.0600	-687.99	-49.5300
Nasdaq ISE, LLC (ISOE)	1.66	1.24	15.26	20.06	63.41	5,627.20	17.4400	-15,018.47	-40.3500	3,816.29	10.1000	10,499.59	13.0500
NASDAQ BX Options (NBXO)	1.65	0.00	70.41	29.37	0.20	0.00	0.0000	-55,835.68	-40.0500	4,733.57	18.1600	-235.74	-26.3600
NYSE American LLC (AMEX)	1.14	0.80	33.51	22.02	43.65	0.00	0.0000	-2,349.75	-5.9700	-1,105.50	-3.2500	-1,046.46	-7.4500
CBOE EDGO Exchange (EDGO)	0.99	0.92	36.13	27.27	35.66	4,487.67	38.0900	-1,921.01	-2.4200	-1,132.90	-5.1700	3,636.18	22.0400

Material Aspects:

NYSE Arca, Inc. (PCOE):

PCOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://www.nyse.com/publicdocs/nyse/markets/arca-options/NYSE_Arca_Options_Fee_Schedule.pdf

Information reflecting the PCOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

CBOE BZX Options Exchange (BATO):

BATO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/bato/

Information reflecting the BATO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

NASDAQ Options Market LLC (NDOE):

NDOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://listingcenter.nasdaq.com/rulebook/nasdaq/rules/nasdaq-options-7>

Information reflecting the NDOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

CBOE Options Exchange (XCBO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferred" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferred" registered market makers for options orders the Firm sends to the exchange.

XCBO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: https://markets.cboe.com/us/options/membership/fee_schedule/xco/

Information reflecting the XCBO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

NASDAQ BX Options (XBOX):

XBOX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website: <https://boxoptions.com/regulatory/fee-schedule/>

Information reflecting the XBOX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

MIAX PEARL LLC (MPRL):

MPRL has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://www.miaxoptions.com/fees/pearl>

Information reflecting the MPRL's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

Nasdaq ISE, LLC (ISOE):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

ISOE has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/ise/rules/ise-options-7>

Information reflecting the ISOE's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

NASDAQ BX Options (NBXO):

NBXO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
<https://listingcenter.nasdaq.com/rulebook/bx/rules/bx-options-7>

Information reflecting the NBXO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

NYSE American LLC (AMEX):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

AMEX has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://www.nyse.com/publicdocs/nyse/markets/american-options/NYSE_American_Options_Fee_Schedule.pdf

Information reflecting the AMEX's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx

CBOE EDGO Exchange (EDGO):

Pursuant to an exchange-sponsored marketing fee program, registered market-makers may receive payments from the exchange as a result of their designation as a "preferenced" market-maker by an exchange member. With respect to such exchange program, the Firm may receive payments from "preferenced" registered market makers for options orders the Firm sends to the exchange.

EDGO has a tiered pricing/payment schedule. For detailed information, please see the exchange's public website:
https://markets.cboe.com/us/options/membership/fee_schedule/edgo/

Information reflecting the EDGO's tiered pricing/payment schedule, as applicable to GSCO, can be found at : https://www.goldmansachs.com/compliance-rule606/docs/us_options_rate_card_202212.xlsx