## **CORTEX EQUITIES** CORTEX ALTERNATIVE TRADING SYSTEM

# **ATS Monthly Statistics**

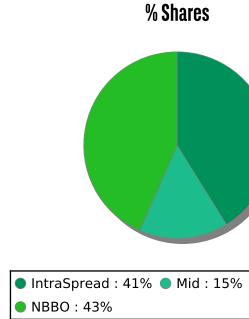
## February 2024

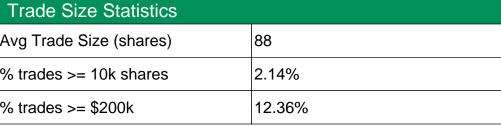
Cortex ATS is BNP Paribas' Alternative Trading System ("ATS"). The Cortex ATS is a non-displayed order book for listed equities that can be accessed by clients directly, or using one of BNP Paribas' equity trading platforms.

Summary Statistics		Trade S
ADV - Shares (MM) *	12.17	Avg Trade
ADV - Notional (MM) *	1,195.6	% trades :
# Symbols traded	7,732	% trades :
	* These figures are single count	ted.

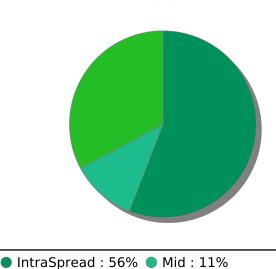
## **Trade Price Summary**

% Trades





NBBO : 33%

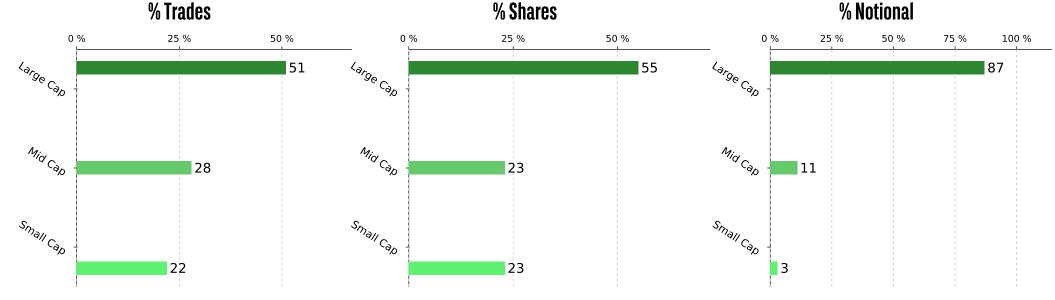


% Notional

NBBO : 43%



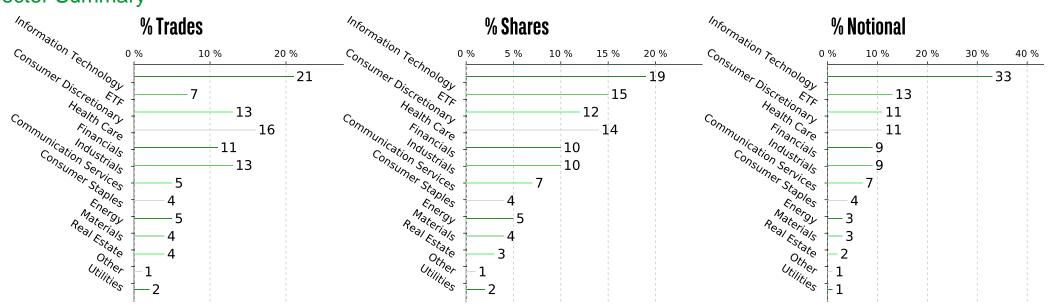
IntraSpread : 41%



Source: BNP Paribas, February 2024

Source: BNP Paribas, February 2024

Sector Summary



Source: BNP Paribas, February 2024

## Counterparty Type Summary

CounterParty Type	% Filled Shares	Average Fill Size	Spread Savings (bps)	Spread Savings (%)	Midpoint Slippage (bps)	T+20ms (bps)	T+30s (bps)	T+30m (bps)
1 Principal	2.3%	1,129	0.87	34.2%	-1.91	1.95	1.93	1.99
2 Agency	16.1%	161	3.69	64.6%	1.38	-0.63	-1.05	-2.22
3 Direct Low	14.6%	113	3.84	42.2%	0.07	0.35	0.45	0.38
4 Direct Medium	34.7%	88	4.79	53.2%	0.33	-0.16	-0.71	-1.15
5 Direct High	32.4%	62	3.83	45.8%	-0.59	0.13	0.51	1.18
Total	100.0%	88	3.92	50.0%	0.00	-0.00	0.00	0.00

Source: BNP Paribas, February 2024

### Glossary

#### Counterparty Type

• 1 Principal: BNP Paribas acting as principal

• 2 Agency: Agency client order flow sent from Algorithms or Smart Order Routers, where the router or the Algorithm logic elects to route to Cortex ATS. Also includes situations involving External Subscribers that are an Institutional Client of BNP Paribas Securities Corp. and are using a 3rd party ATS aggregation or Dark Liquidity smart order routing service and where the identity of the External Subscriber is fully disclosed to BNP Paribas Securities Corp.

- 3 Direct Low: Agency client orders directly routed to Cortex ATS that are determined by BNP Paribas to have a low average price reversion
- 4 Direct Medium: Agency client orders directly routed to Cortex ATS that are determined by BNP Paribas to have a medium average price reversion
- 5 Direct High: Agency client orders directly routed to Cortex ATS that are determined by BNP Paribas to have a high average price reversion

% Filled Shares: Average Fill Size:	Percentage of shares executed against a counterparty type. The arithmetic average of fill size across all executions.
Spread (bps):	The average difference in ask and bid prices expressed in basis points.
Spread Savings (bps):	The notionally-weighted difference between fill price and the far touch price at fill time expressed in basis points.
Spread Savings (%):	The notionally-weighted difference between fill price and the far touch price as a percentage of the bid-ask spread.
Midpoint Slippage (bps	): The notionally-weighted difference between fill price and the midpoint price of the stock expressed in basis points.
T+X (bps):	The notionally-weighted difference between the midpoint price at fill +X time units and the midpoint price at fill time expressed in basis points.
	The above numbers are side-adjusted.
	Positive mark outs reflect that prices moved in your favor. e.g. When buying, prices increased after the trade.
	Negative mark outs reflect that prices moved against you. e.g. When buying, prices decreased after the trade.



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