Presto Data Team

Crypto Flow Report: December 2024

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Data Partners

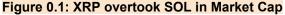
Summary

- December was a historic month for the industry as BTC surpassed \$100k for the first time, reaching a high of \$106,496. To wrap up the year, BTC saw a total gain of 121.07% but December was the 4th down month of 2024 and was a mixed month for other crypto assets (Figure 1.1, 1.3).
- Asia led the timezones again in BTC returns and was the only positive timezone on average throughout December (Figure 1.2).
- BTC outperformed ETH for the 9th month in 2024 (Figure 1.4) which allowed for a recovery in BTC Dominance (Figure 1.6).
- Institutional growth remained solid as ETF inflows grew on a USD basis (Figure 2.1) although there seemed to be some outflows in the latter half of the month most likely due to profit-taking after BTC hit \$100k and related to year-end flows.
- Interestingly, OI-weighted perp funding normalised before BTC peaked on 17Dec24 (Figure 3.1).
- As is often the case, liquidity saw a slight deterioration as we headed into the holiday season as we can see from BTC and ETH's 2% orderbook depths (Figure 4.1a, 4.1b).
- BTC's put/call ratio remained firmly above ETH's as investors seemed to position themselves more cautiously in the asset that outperformed overwhelmingly in 2024 (5.1). This also saw BTC experience a positive IV-RV spread in the second half of the month while ETH's spread flipped around par (Figure 5.7a, 5.7b).
- BTC's performance also allowed for a notable outperformance in TVL as well as the TVL/MC ratio which we use to adjust for the underlying price performance (Figure 6.1, 6.2).

December Highlight: XRP Stats

The remarkable trajectory of XRP in Q4 2024 represents a potential paradigm shift in institutional sentiment, catalysed by significant regulatory developments. Following November's extraordinary 284% appreciation - driven primarily by Trump's electoral victory in early-November and the subsequent announcement of Gary Gensler's January 2025 departure - XRP achieved a notable milestone by surpassing Solana's market capitalisation on December 1st (Figure 0.1).





This price action must be contextualised within Ripple's lengthy regulatory journey, which has seen the firm expend over \$100mm in legal defense through June 2024. The August 2024 ruling by Judge Torres, which imposed a relatively modest \$125mm civil penalty compared to the SEC's initial \$2B demand, marked a crucial inflection point which the market interpreted as a win for Ripple Labs. While the SEC's October appeal introduced fresh uncertainty, the appointment of pro-crypto Paul Atkins as incoming SEC Chair suggests a potential moderation in regulatory headwinds. A darling of the TradFi crowd, XRP has witnessed substantial growth in open interest, surging 508% from January to its December peak (Figure 0.2). Anecdotal evidence suggests meaningful institutional positioning, particularly from non-crypto native accounts anticipating potential regulatory clarity and ETF considerations (see Daily Market Brief 241003 for a quick take on the first XRP ETF application as well as Daily Market Brief 240808 for a post-mortem on the August Judge Torres ruling).

Source: Laevitas, Presto Research

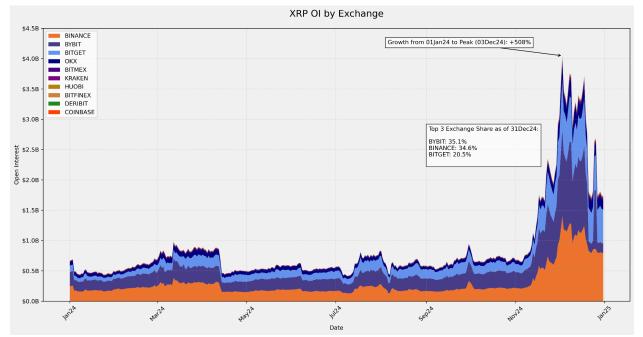


Figure 0.2: XRP perp OI grew across CEXs led by ByBit and Binance

Source: Laevitas, Presto Research

XRP's realised volatility shot up to unprecedented levels in December, exceeding 160% (Figure 0.4). Looking at its spread over Bitcoin's realised volatility – a lazy attempt to somewhat normalise XRP's RV for broader market volatility by removing the crypto beta effect – we observed readings of 162.3%, the highest on record. The monthly RV range, a simple measure of the high-low, similarly painted a picture of extreme volatility (Figure 0.3), with levels hitting all-time-highs.

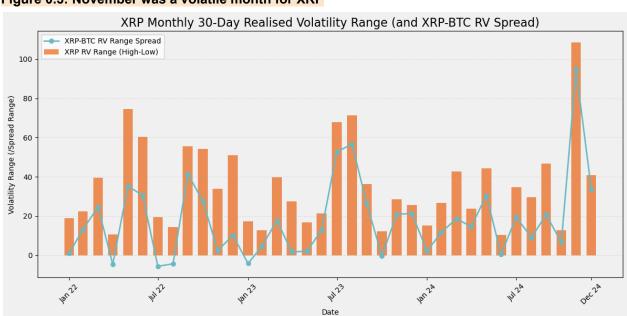


Figure 0.3: November was a volatile month for XRP

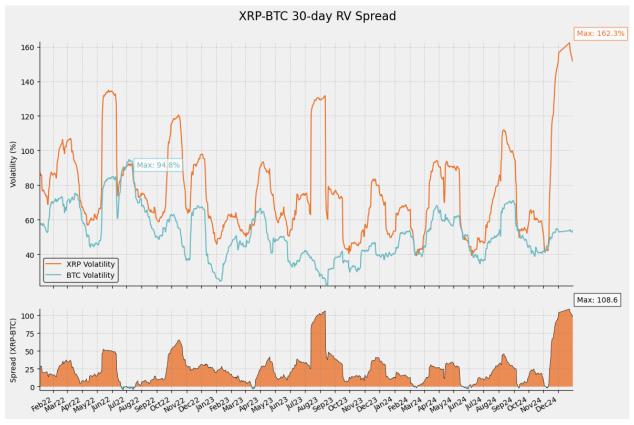


Figure 0.4: XRP's Realised Vol spread over BTC's was the highest on record

Source: Laevitas, Presto Research

Based on the upcoming regulatory shift in the US, notably in the White House and the SEC, the path forward for XRP appears constructive. Bloomberg Senior ETF Analyst Eric Balchunas projects XRP ETF approvals in 2025, though notes potential delays due to ongoing securities issues compared to other digital assets like Litecoin. With Paul Atkins, known for his pro-crypto stance, set to succeed Gensler as SEC Chair in January 2025, the historical headwind may see meaningful shifts in the coming months.

1. Performance

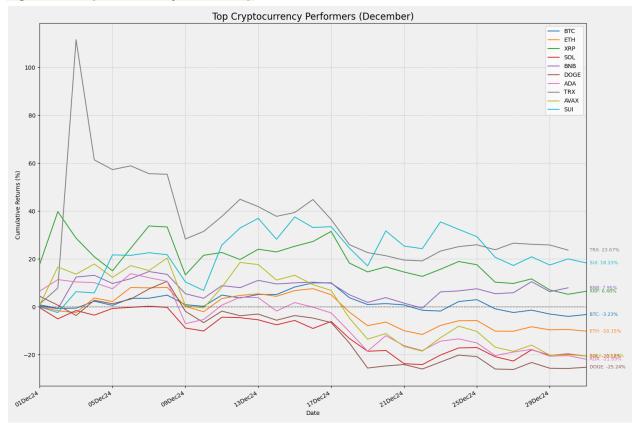
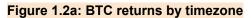
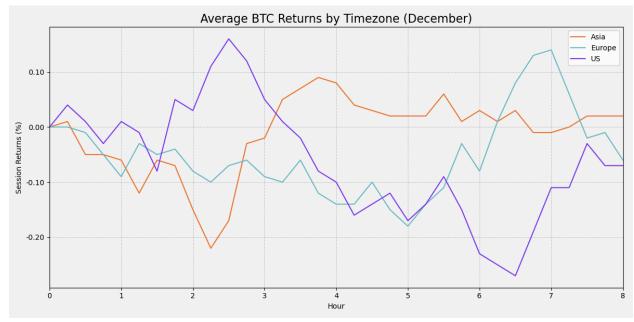


Figure 1.1: Top 10 Coins by Market Cap

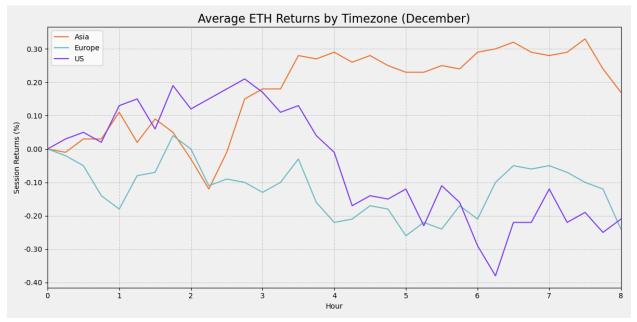
Source: Coinbase, Binance, Presto Research





Source: Presto Research

Figure 1.2b: ETH returns by timezone



Source: Presto Research

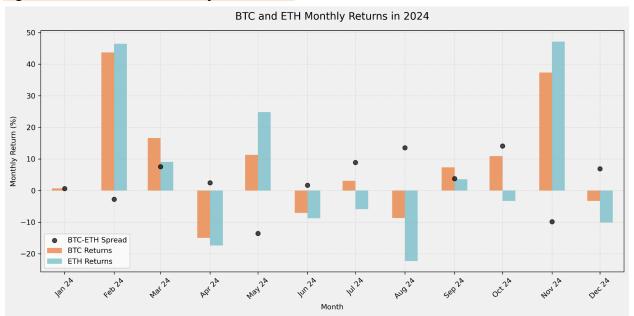
Figure 1.3: BTC monthly returns matrix

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly
Average -	-0.48	11.51	-0.92	8.50	11.81	1.83	7.42	-0.97	-4.13	18.45	9.49	8.17	94.31
2024 -	0.67	43.71	16.60	-14.93	11.26	-7.09	3.07	-8.71	7.35	10.88	37.33	-3.11	121.07
2023 -	39.95	0.02	23.08	2.71	-6.94	11.97	-4.06	-11.28	3.96	28.51	8.84	12.07	155.78
2022 -	-16.66	12.18	5.41	-17.30	-15.60	-37.22	16.87	-13.99	-3.13	5.51	-16.24	-3.72	-64.22
2021 -	14.35	36.51	29.96	-1.71	-35.44	-6.08	18.41	13.61	-7.04	40.02	-7.08	-18.98	59.40
2020 -	30.22	-8.64	-24.66	34.31	9.52	-3.33	24.31	2.67	-7.53	28.12	42.72	47.04	304.36
2019 -	-7.60	11.16	7.99	28.67	62.11	25.90	-6.22	-4.81	-13.51	10.22	-17.46	-5.13	94.11
2018 -	-27.16	1.89	-32.84	33.53	-19.00	-14.70	20.97	-9.18	-6.42	-3.97	-37.01	-7.03	-73.41
2017 -	-0.17	22.88	-9.20	26.02	68.80	6.80	16.68	65.37	-8.52	48.58	54.80	39.32	1331.17
2016 -	-14.80	20.10	-5.23	7.35	18.83	26.61	-7.10	-8.08	6.25	14.44	6.40	30.72	126.19
2015 -	-33.04	18.49	-4.38	-3.44	-3.14	14.95	8.20	-18.67	2.22	33.62	19.27	13.83	33.11
2014 -	8.92	-31.70	-16.91	-1.74	39.46	2.33	-9.49	-17.62	-19.01	-12.97	12.79	-15.16	-56.40

BTC Monthly Returns Matrix

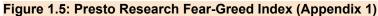
Source: Presto Research

Figure 1.4: BTC and ETH monthly returns YTD



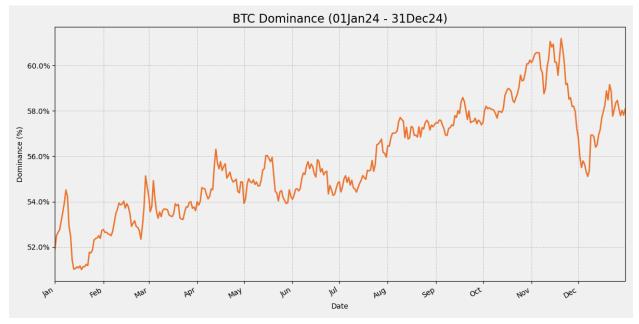
Source: Presto Research





Source: Presto Research

Figure 1.6: BTC dominance



Source: Presto Research

2. ETF Flows

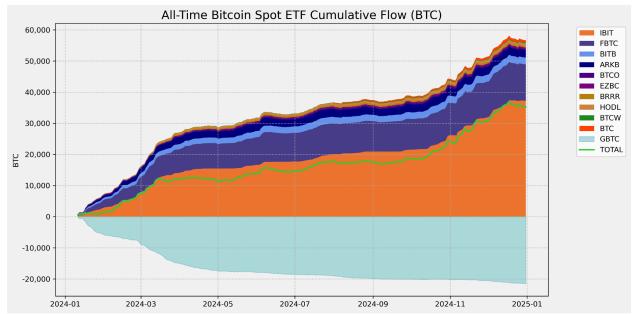


Figure 2.1: All-Time Aggregate BTC ETF Flows

Source: Farside Advisors, Presto Research

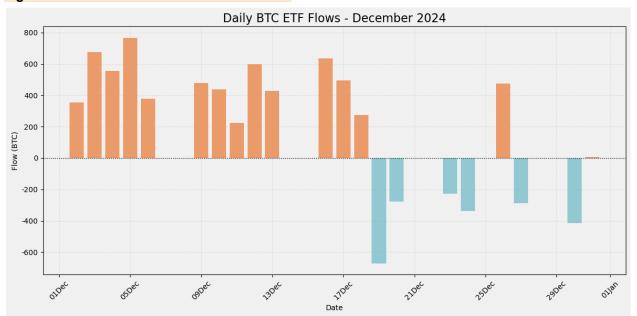
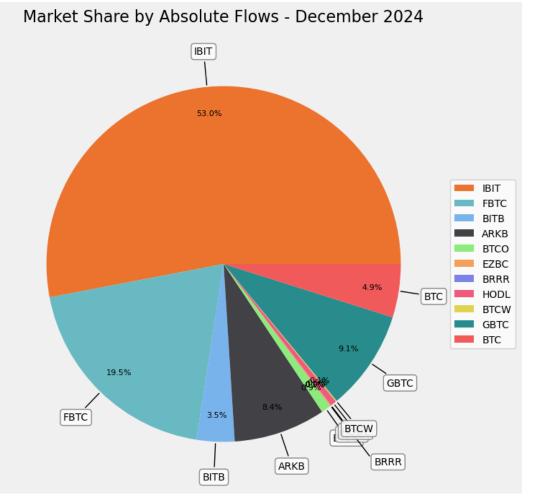


Figure 2.2: Total BTC ETF Flows in December

Source: Farside Advisors, Presto Research

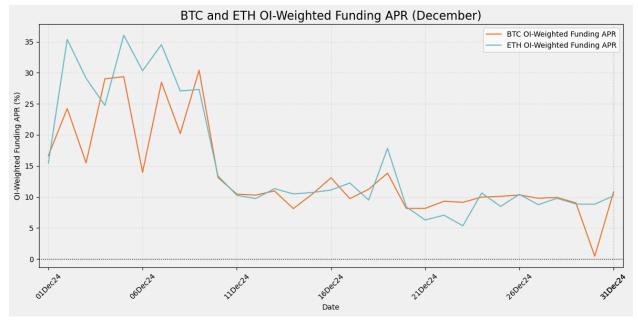




Source: Farside Advisors, Presto Research

3. Funding Rates

Figure 3.1: OI-Weighted Funding APR



Source: Laevitas

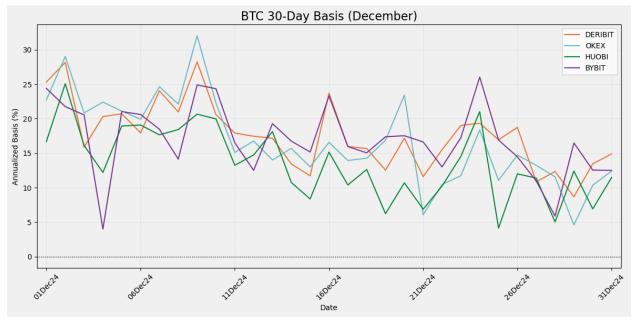
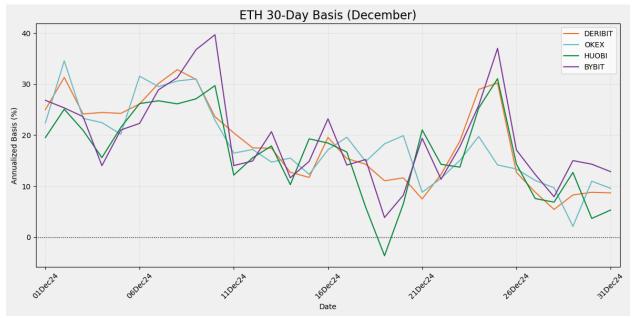


Figure 3.2a: BTC Futures 30-day Basis

Source: Laevitas

Figure 3.2b: ETH Futures 30-day Basis



Source: Laevitas

4. Volume and Liquidations



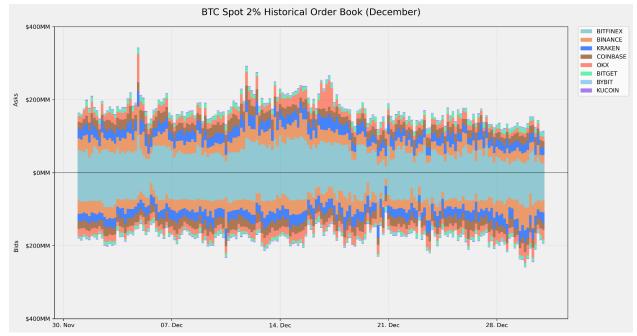
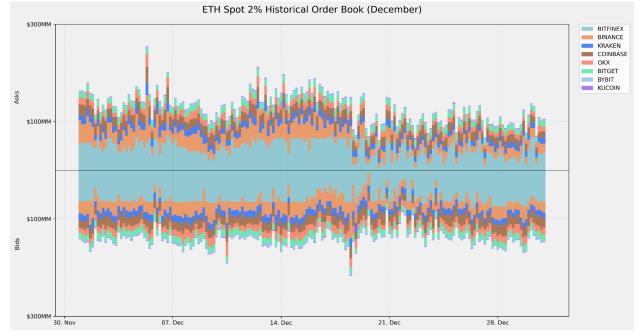


Figure 4.1b: Spot ETH Order Book Depth



Source: Laevitas, Presto Research

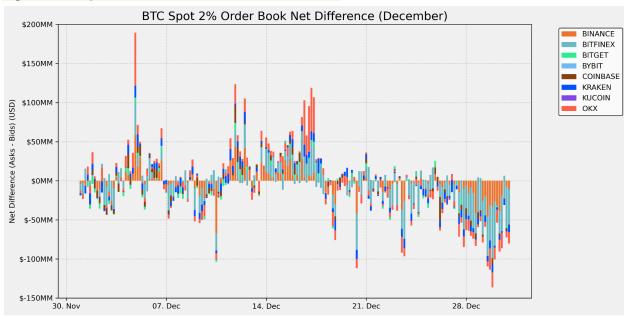


Figure 4.2a: Spot BTC Order Book Ask-Bid Difference

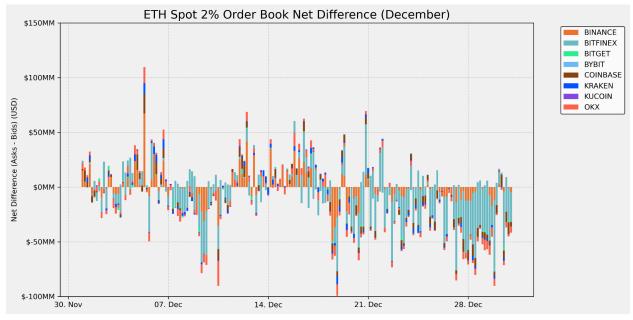


Figure 4.2b: Spot ETH Order Book Ask-Bid Difference

Source: Laevitas, Presto Research

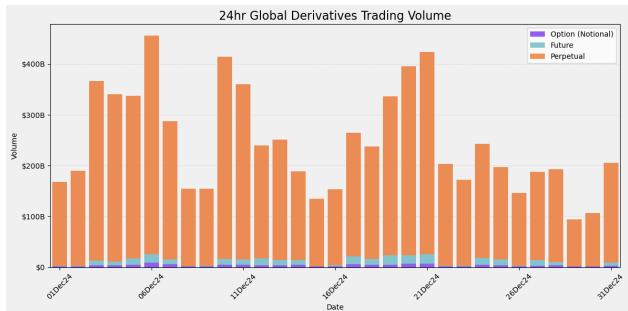


Figure 4.3: Total Derivatives Volume (Appendix 2)

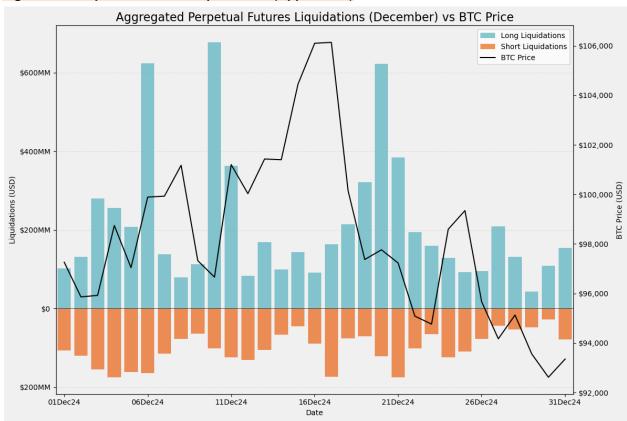


Figure 4.4: Perpetual Futures Liquidations (Appendix 3)

Source: Laevitas, Presto Research

5. Options

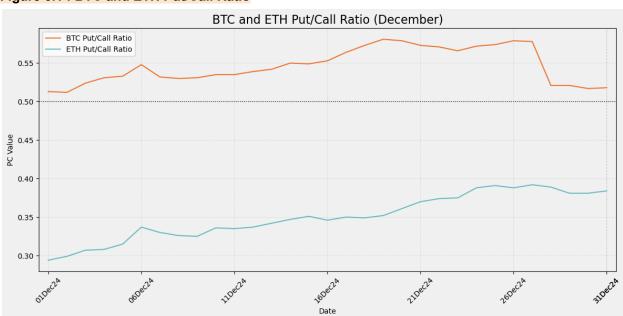
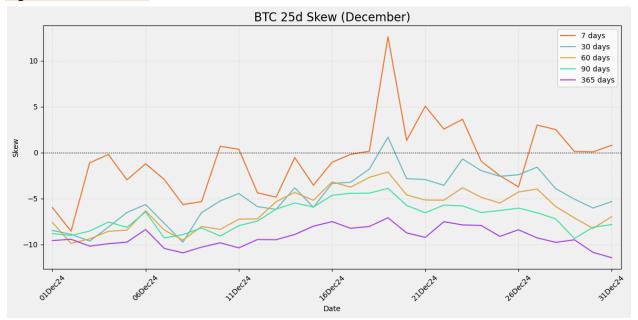


Figure 5.1 : BTC and ETH Put/Call Ratio

Source: Deribit via Laevitas, Presto Research

Figure 5.2a: BTC Skew



Source: Deribit via Laevitas, Presto Research

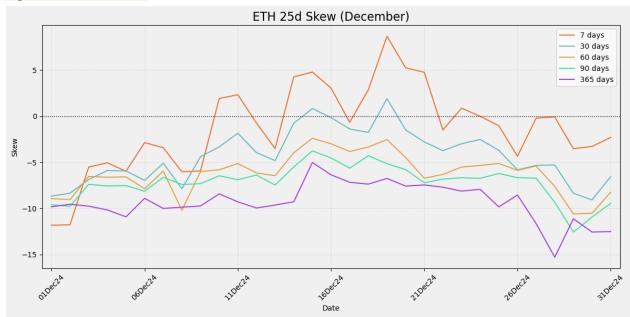
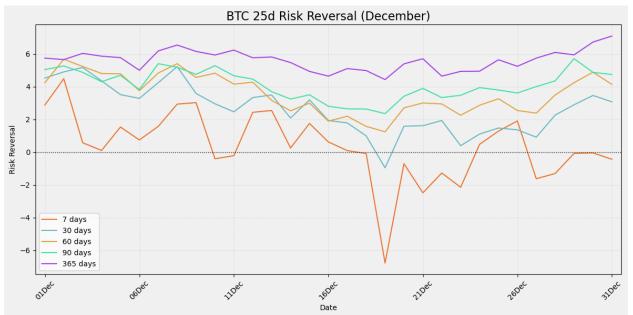


Figure 5.2b: ETH Skew

Source: Deribit via Laevitas, Presto Research

Figure 5.3a : BTC Risk Reversals



Source: Deribit via Laevitas, Presto Research

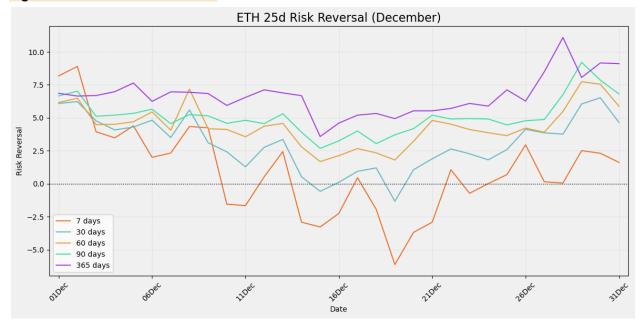
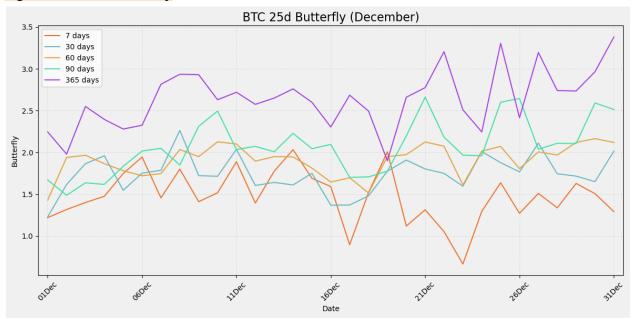


Figure 5.3b : ETH Risk Reversals

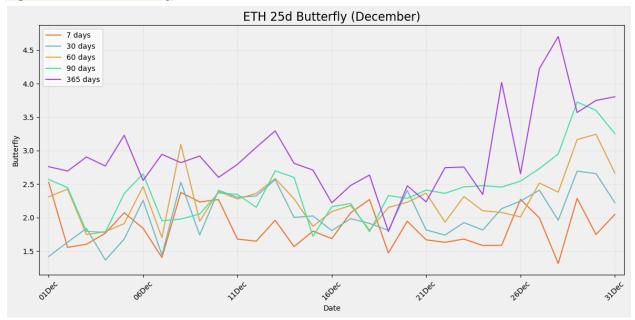
Source: Deribit via Laevitas, Presto Research

Figure 5.4a : BTC Butterfly



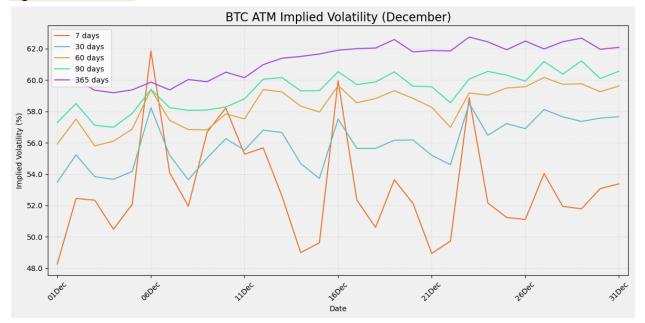
Source: Deribit via Laevitas, Presto Research

Figure 5.4b : ETH Butterfly



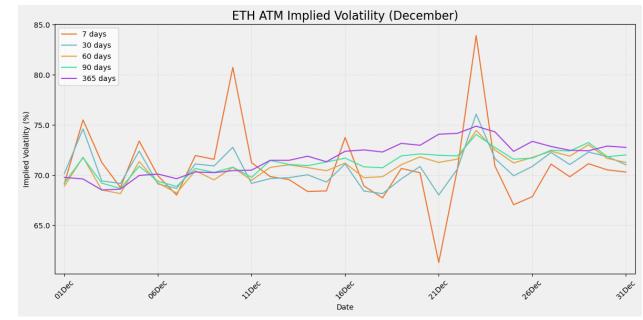
Source: Deribit via Laevitas, Presto Research

Figure 5.5a : BTC IV



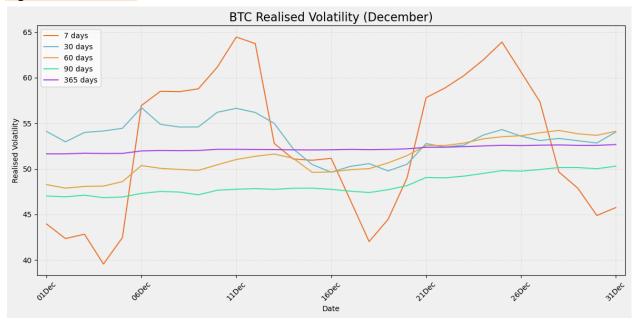
Source: Deribit via Laevitas, Presto Research





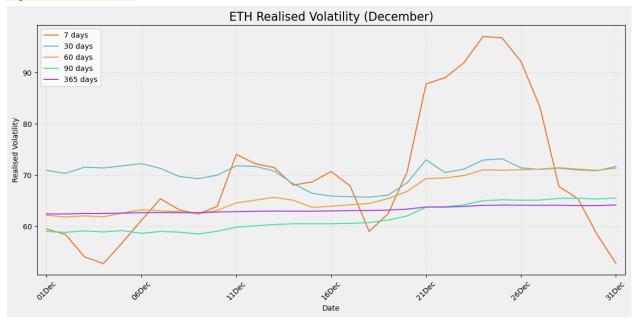
Source: Deribit via Laevitas, Presto Research

Figure 5.6a : BTC RV



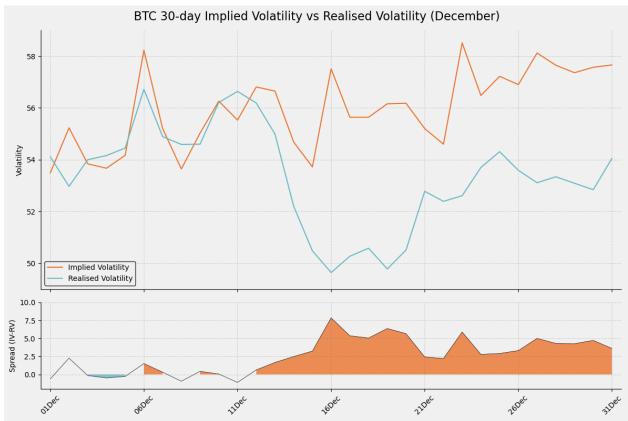
Source: Deribit via Laevitas, Presto Research

Figure 5.6b : ETH RV



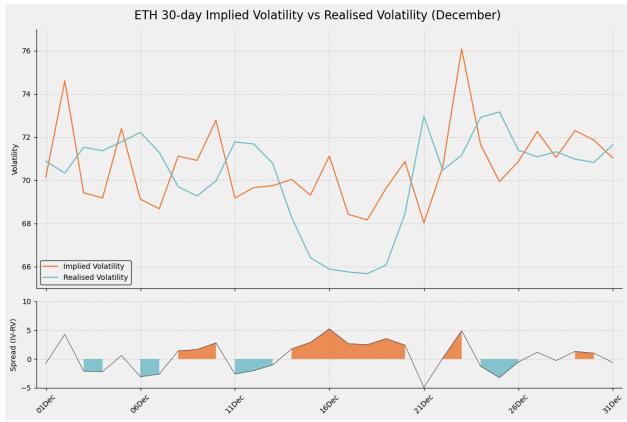
Source: Deribit via Laevitas, Presto Research

Figure 5.7a : BTC IV-RV



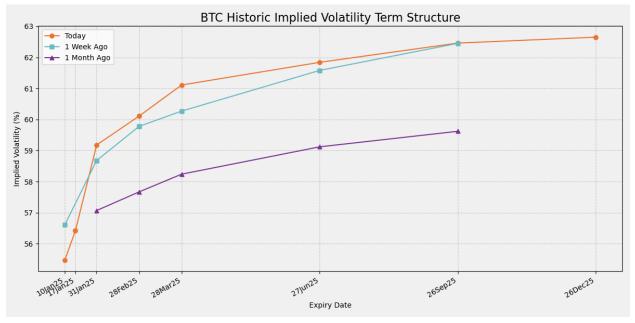
Source: Deribit via Laevitas, Presto Research

Figure 5.7b : ETH IV-RV



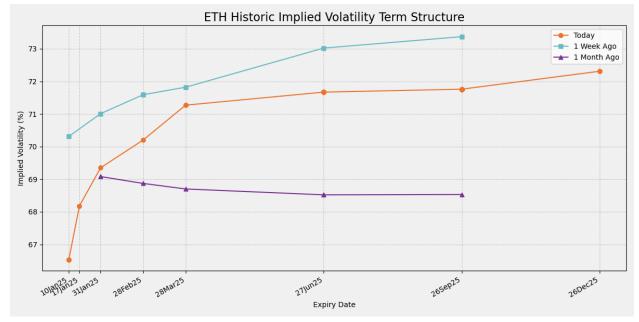
Source: Deribit via Laevitas, Presto Research

Figure 5.8a : BTC Term Structure



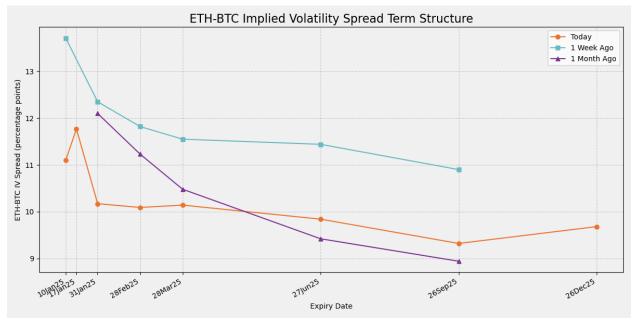
Source: Deribit via Laevitas, Presto Research

Figure 5.8b : ETH Term Structure



Source: Deribit via Laevitas, Presto Research

Figure 5.9 :ETH-BTC IV Spread



Source: Deribit via Laevitas, Presto Research

6. On-Chain

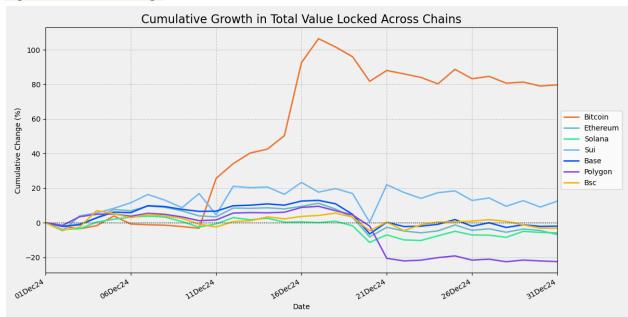
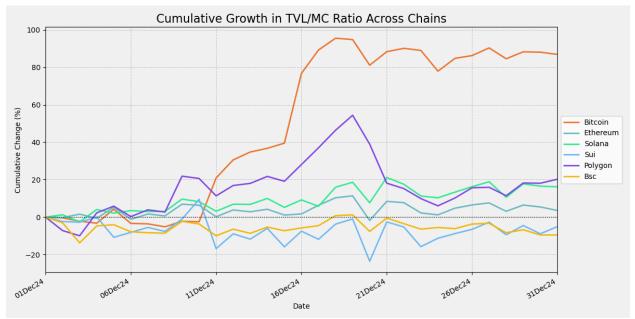


Figure 6.1: TVL \$ Change

Source: Artemis, Presto Research

Figure 6.2: TVL/MC Ratio Change



Source: Artemis, Presto Research

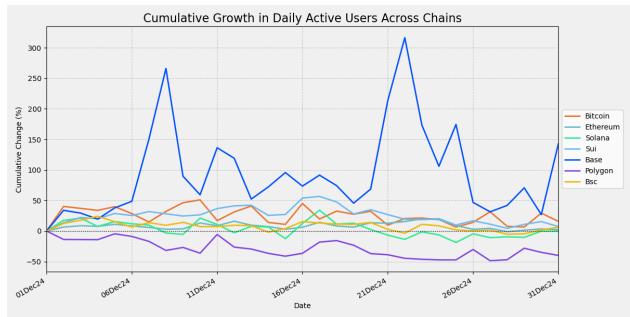


Figure 6.3: DAU Change

Source: Artemis, Presto Research

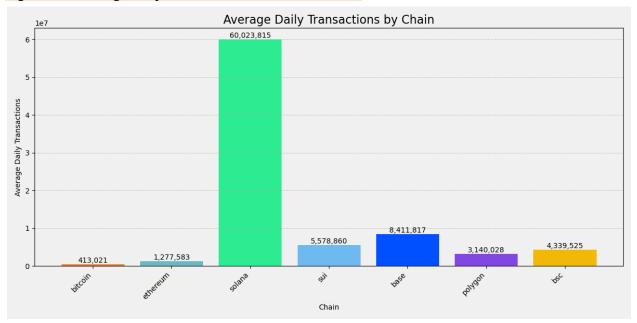


Figure 6.4: Average daily transaction count in December

Source: Artemis, Presto Research

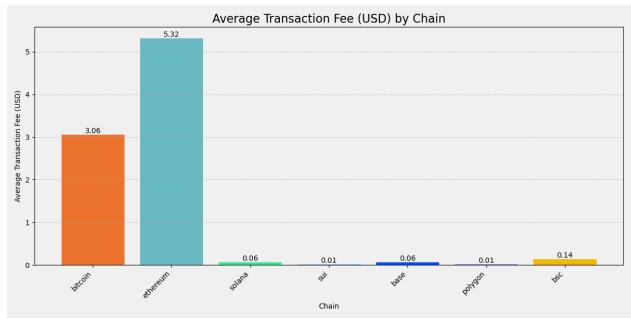


Figure 6.5: Average daily transaction fee (USD) in December

Source: Artemis, Presto Research

About Presto

Presto is an algorithmic trading firm where researchers and engineers solve challenging problems in global financial markets. Our core strength lies in combining engineering, mathematics, and science to navigate both digital asset and traditional finance markets with precision. Presto Research, our research unit, provides expert-driven insights to help navigate these markets effectively.

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