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Data from transfers to eight designated Jito tip accounts reveal that, over the past year, more than 3 billion bundles were processed, generating 3.75 million SOL in total tips. This activity exhibited a clear upward trend, from a low of 781 SOL in tips on January 11th to highs of 60,801 SOL and 60,636 SOL on November 19th and 20th, respectively. A notable slowdown occurred during Q3, with tips dropping to a low of 1,661 SOL on September 7th. This dip was before December 2023 were negligible compared to the substantial growth seen throughout 2024. The daily amount of Jito tips in SOL (Data source: [Data source: 21co/eth](#)) The volume of bundles processed through Jito has grown consistently throughout 2024, culminating in a peak of 24.4 million bundles on December 21st. This growth included two significant surges. The first occurred between May and early July, with daily bundles increasing fourfold from approximately 3 million to 12 million, likely in response to issues with network congestion. The second surge occurred from November to December, as daily bundle volume doubled from around 12 million to a peak of 24 million. The number of accounts using Jito has shown a parallel upward trajectory, beginning the year with approximately 20,000 daily tipplers and peaking at nearly 938,000 on December 10th. Significant growth periods include an increase from 21,000 in early March to 135,000 by mid-April (a 6x increase) and another sharp rise from 208,000 in October to 703,000 by the end of the month (a 3.4x increase). The daily number of Jito tipplers (Data source: [Dune Analytics, Andrew Hong](#)) The adoption of the Jito-Solana client among validators grew steadily throughout 2024, enhancing the effectiveness of Jito bundles for fast transaction inclusion. At the start of the year, validators using the Jito-Solana client represented 189.5 million staked SOL, accounting for 48% of the total network stake. By the beginning of 2025, this figure had risen to 373.8 million staked SOL, 92% of the total stake. Reverted Transactions/ A substantial portion of transactions on Solana are attributable to spam associated with MEV extraction. By examining the ratio of reverted to successful transactions, we can identify patterns indicative of MEV bots competing to capture arbitrage opportunities. Spamming presents a significant challenge as it results in many reverted transactions. In the winner-takes-all nature of MEV, only one transaction can exploit a given opportunity. However, even after this opportunity is captured, leaders often process other transactions attempting to exploit the same opportunity. These reverted transactions still consume valuable compute resources and network bandwidth. The competitive latency race among searchers further exacerbates the issue, flooding the network with multiple transactions and, in extreme cases, causing congestion and a detection of a network-wide spam attack. This spam attack was detected by the network, causing a temporary halt in processing. Reverted transactions peaked in April 2024, accounting for 75.7% of all non-vote transactions. This percentage dropped significantly following the rollout of key updates, including the Agave 1.18 central schedule. The new scheduler improved deterministic transaction ordering within the banking stage, curbing the effectiveness of spam. Arbitrage Profitability/ Jito's arbitrage detection algorithm, which analyzes all Solana transactions, including those outside Jito bundles, identified 90,445,905 successful arbitrage transactions over the past year. The average profit per arbitrage was \$1.58, with the most profitable single arbitrage yielding \$3.7 million. These arbitrages generated \$142.8 million in profits, of which \$126.7 million (88.7%) were denominated in SOL. Arbitrage transaction profits by token for 2024 (Data source: [Jito/Case Study: Vpe](#)) Sandwich Program/ DeezNode operates an on-chain sandwich bot at the address vpe\_NAL...o3x8B as part of their alternative mempool operations. This highly active program has recently gained notoriety for executing large-scale user sandwich attacks. Internal analysis from Jito indicates that nearly half of all sandwich attacks on Solana can be attributed to this single program. The Vpe program is the source of just under half of all Solana sandwich attacks (Source: [Jito internal](#)) Over one 30-day period (Dec 7th to Jan 5th), the program executed 1.55 million sandwich transactions, averaging approximately 51,600 daily transactions, with a success rate of 88.9%. The program generated a profit of 65,880 SOL (\$13.43 million), equating to roughly 2,200 SOL per day. Jito tips paid by the program totaled 22,760 SOL (\$4.63 million), averaging around 758 SOL daily. The average profitability of a sandwich transaction was 0.0425 SOL (88.67%). The Vpe sandwich bot's extracted value from Dec 7th, 2024, to Jan 5th, 2025. The majority of victim transactions involved swaps conducted through Raydium. Among the top 20 sandwiched tokens, 16 were created on Pump Fun, identifiable by vanity token mint addresses ending in "pump". The Vpe sandwich bot is one of many on-chain programs that execute sandwich attacks. Visit [sandwich.me](#) for a timely directory of detected sandwich attacks on Solana. Analyzing the profit data from DeezNode, this program is expected to generate a profit of 1,540 SOL. In a worst-case scenario for network centralization, where 100% of these profits are reinvested into the alternative mempool's validators, their share of the network stake would increase by 0.2%, assuming the overall network stake remains unchanged. This worst-case scenario is unlikely for several reasons. First, the network is currently experiencing near-record activity levels. Second, it is reasonable to assume that pool searchers and operators would cash out a portion of their profits rather than reinvest all gains. MEV Mitigation Mechanisms/ Substantial resources have been dedicated to studying and exploring various mechanisms for mitigating or reallocating MEV. General-purpose, out-of-protocol solutions are increasingly integrated into applications and infrastructure to minimize the on-chain MEV surface area. These mechanisms include: Validator Whitelists/ One proposed idea is that stakers, RPC providers, and other validators could socially ostracize validators caught sandwiching by ignoring their leadership slots. However, whitelists are widely seen as a measure of last resort. Since leaders are assigned four consecutive slots, this approach could delay transaction processing for several seconds, a suboptimal user experience. More critically, whitelists risk creating a semi-permissioned and censored environment that directly conflicts with the decentralized ethos of the blockchain industry. Additionally, such systems carry the inherent risk of mistakenly excluding honest validators, potentially undermining network trust and participation. As an aside, independent developers and applications can freely establish their own validator allow or deny lists, a feature supported by the sendTransactions method in the Helius Node.js SDK. Dynamic Slippage/ A MEV Protection/ Managing slippage has traditionally been a challenging and tedious process for users, requiring manual adjustments tailored to their trading tokens. This approach is particularly burdensome when handling volatile or illiquid tokens, as the slippage settings suitable for stable assets such as liquid staking tokens or stablecoins differ significantly from those required for memecoins. In August 2024, Solana's most popular retail trading platform, Jupiter Aggregator, introduced dynamic slippage to address this complexity. This algorithmic mechanism optimizes slippage settings in real-time, leveraging a set of heuristics to calculate an ideal slippage threshold for each trade. These heuristics consider factors such as: Current market conditions/ The types of tokens being traded (e.g., stable pairs versus volatile memecoins)/ The pools or order books the trade is being routed through/ The user's maximum slippage tolerance/ The heuristics ensure the trade is optimized for success with the least slippage, reducing the scope for MEV extraction. MEV Protect Mode is an increasingly common feature across decentralized exchanges and Telegram trading bots. When enabled, user transactions are routed exclusively to Jito block engines, significantly reducing the risk of sandwich attacks. However, this protection comes at the cost of slightly higher transaction fees. Anecdotal evidence suggests that many Telegram bot users do not enable MEV protection even when offered. Their primary concern is fast transaction inclusion, and they prioritize speed over reducing the risk of sandwich attacks. RFQ systems/ RFQ systems are gaining traction on Solana, enabling orders to be fulfilled by professional market makers instead of on-chain AMMs or order books. These systems use signature-based pricing, allowing for off-chain computation, with price discovery happening off-chain and only the final transaction recorded on-chain. Examples include: Kamino Swap/ Kamino Swap integrates intent-based exchange platform designed to eliminate slippage and MEV. Kamino leverages the Pyth Express Relay to broadcast swap requests to a network of searchers, who compete in an auction to fill the transaction. The winning searcher provides the best execution price and pays a tip to the user. In cases where arbitrage opportunities arise, searchers may execute trades at even better prices than requested, generating a trade "surplus." Users benefit by retaining any surplus from their transactions, enhancing their overall execution value. Jupiter RFQ/ Jupiter RFQ is enabled by default for all swaps on Jupiter. This feature allows swaps to automatically select the best price between Jupiter's standard on-chain routing engine and its RFQ system. With RFQs, users benefit from no slippage or MEV, as trades are executed directly with off-chain market makers. Additionally, market makers cover the transaction priority fee, and transactions are CU-efficient, bypassing the need for complex routing logic. RFQ systems excel with widely traded tokens listed on CEXs. However, they are less effective for newer, low-liquidity, and highly volatile on-chain assets. Unfortunately, these are precisely the trades most susceptible to MEV exploitation. An additional downside is that liquidity moves off-chain, reducing computation security. Sandwich-resistant AMMs/ Sandwich-resistant AMMs (sr-AMMs) are experimental designs that build upon traditional constant-product (xy=k) AMMs. With sr-AMMs, no swaps are executed at a price more favorable than the pool's price at the start of the slot window. This mechanism effectively neutralizes the profitability of sandwich attacks. sr-AMMs function using slot windows to manage trades. Swaps within a slot window affect the pool asymmetrically for buy and sell orders. When a buy order is executed, the offer price on the pool increases along the xy=k curve while the bid price remains unchanged, effectively adding liquidity to the bid side. Conversely, sell orders deplete this bid-side liquidity, reducing the offer price as determined by the xy=k curve. At the start of each new slot window, the sr-AMM resets to its equivalent xy=k state, recalibrating the bid and offer prices. By decoupling these curves from individual transactions and maintaining consistent pricing within each slot window, sr-AMMs disrupt the atomic execution required for profitable sandwich attacks, rendering them ineffective. Sandwiching remains possible at the boundaries between slots. If a leader controls consecutive slot windows, they can execute a front-run and the target transaction at the end of the first slot, followed by a back-run at the start of the following slot. Ellipsis Labs published Plasma, an audited reference implementation of a sandwich-resistant AMM design, this November. Conditional Liquidity & Overflow Segmentation/ Decentralized exchanges (DEXs) currently lack mechanisms for applying variable pricing tailored to different types of market participants. This limitation arises because DEXs cannot accurately identify the cost imposed on the DEX protocol by the order flow. DEXs tighten their spreads to attract order flow, inadvertently increasing their exposure to adverse selection from sophisticated takers. Conditional Liquidity introduces a novel mechanism that enables DEXs to dynamically adjust spreads based on the expected toxicity of incoming order flow. This allows DEXs to express a broader range of on-chain, just-in-time preferences. Rather than offering a single spread to all participants, conditional liquidity enables DEXs to present a gradient of spreads calibrated to the perceived likelihood of adverse selection by specific takers. This process relies on a new class of market participants known as Segmenters. Segmenters specialize in assessing the toxicity of order flow and adjust spreads accordingly. They capture a portion of the adjusted spread as compensation while passing the remainder to the wallet or trader. By managing spread-setting responsibilities, Segmenters enable DEXs to better compete for non-toxic order flow. Segmenters compete against one another to minimize adverse selection risks for liquidity providers. The tightest quotes are reserved for flows deemed least likely to harm liquidity providers. In its simplest form, a wallet or application can act as a Segmenter for its own order flow. Alternatively, it could delegate this responsibility of flow segmentation to a marketplace. Orderflow segmentation diagram (Source: [Dflow](#)) Users take advantage of this through 'declarative swaps,' which enable them to declare their intent to swap and leverage a Segmenter for execution. These swaps interact with both existing Solana liquidity sources and conditional liquidity-enabled DEXs. Built with Jito bundles, declarative swaps offer traders a guaranteed quote at the time of signature while recalculating the optimal route just before the transaction lands on the network—ensuring adherence to the initial quote. This approach significantly reduces the latency between route calculation and transaction finalization, mitigating slippage. Moreover, declarative swaps minimize the likelihood of sandwich attacks when routing through conditional liquidity DEXs. By offering tighter spreads to non-toxic flows, these DEXs improve trading conditions for Solana users. Declarative swaps that provide traders with reduced slippage, lower latency, and advanced protection against sandwiching, delivering a more efficient and secure trading experience. Paladin Solana/ Solana, a modified version of the Jito-Solana validator client that introduces a minimal code patch (~2k lines) to include the Paladin Priority Order (P3) upgrade during the bundle stage. The Paladin Priority Order (P3) facilitates high-priority transactions, allowing users to submit their transaction to Leader B, who maintains honest, long-term maximizing competition among leaders. It involves reducing slot durations, limiting the number of consecutive slots assigned to a single leader, and increasing the number of concurrent leaders per slot. By scheduling more leaders per second, users gain greater flexibility, enabling them to choose the most favorable offer from the available leaders for transaction inclusion. Although MCL presents a compelling long-term solution to mitigate MEV, its implementation is complex and will likely require several years of development. Asyncronous Execution (AE) presents another potential approach to reducing MEV. Under AE, blocks are constructed without execution or assessing the results of each transaction. This speed poses significant challenges for algorithms in calculating profitable opportunities and executing effective sandwich strategies on time. Conclusion/ Solana's MEV landscape is evolving rapidly and remains far from reaching a stable competitive equilibrium. Searchers continue to develop more sophisticated strategies to extract value while the ecosystem adopts a multipronged approach of infrastructure and mechanisms designed to mitigate harmful MEV. Forward-looking ecosystem investors such as Multicoin Capital are allocating capital, believing that value capture from Solana MEV by ecosystem teams will grow significantly and that the distribution of this value capture will look very different in the coming years. Value capture distribution of MEV (Source: [Multicoin Capital, Tushar Jain](#)) MEV is an inevitable challenge for any decentralized blockchain with significant financial activity. Confronting and managing this "MEV demon" is essential to the network's long-term success. Having emerged stronger from the difficulties of 2023, Solana now thrives as a blockchain with high activity and growing adoption. However, new challenges lie ahead. To achieve the next level of adoption, the ecosystem must meet these challenges head-on. This is a critical moment in Solana's journey to maintain the network's long-term success. The current state of MEV extraction on Solana is a complex and rapidly evolving landscape. The ecosystem is actively exploring various solutions to mitigate MEV, including the use of whitelists, dynamic slippage, and conditional liquidity. While these solutions offer promising avenues for reducing MEV, they also present challenges and trade-offs. The ecosystem must continue to innovate and collaborate to find effective and sustainable solutions. The future of MEV on Solana is uncertain, but the ecosystem's commitment to transparency and user-centric development offers hope for a more equitable and secure trading environment. The ecosystem must continue to explore various solutions to mitigate MEV, including the use of whitelists, dynamic slippage, and conditional liquidity. While these solutions offer promising avenues for reducing MEV, they also present challenges and trade-offs. The ecosystem must continue to innovate and collaborate to find effective and sustainable solutions. 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