

Gas Saving Matters : Benchmark

Saving on transaction costs is like gaining free liquidity. *To standardize the value, calculated with gas price=30gwei, ETH=2000 with the table below*

| Dex | Velocore V2 U swap (V3) | P swap | i swap | k* swap | ETH->USDC swap |
|--------|-------------------------|--------|--------|---------|---|
| 104069 | 127543 | 184329 | 197983 | 246445 | Swap with 1 hop (ex. ETH->USDC-> USDT) |
| 144093 | 235295 | 258926 | 579632 | 396242 | Add ETH-USDC LP |
| 148185 | 401924 | 511149 | 614200 | 459928 | |

The chart above shows how much gas is consumed by the following actions on each Dex: simple swap (without routing), routed swap (with only 1 hop), and add liquidity.

*For an intuitive comparison, the graph is plotted as a transaction cost using the current gas price of 15gwei on the Linea testnet multiplied by the ETH price of 2000.

From the above data, you can see that using Velocore can save you or your buyers 0.7 ~ 8, or 30~75% on EVERY action ! The difference gets larger when there is chain congestion. Considering that the price impact difference between a regular DEX and a concentrated liquidity DEX is less than 0.2% for a typical trade, this makes a huge difference.

source : Dex screener, zkSync Looking at zkSync's statistics, we can see that the average size of a swap across all dexes is only between 100 and 150. Saving even 1 on gas is equivalent to reducing the price impact by 1%, which is equivalent to getting 100k~500k in liquidity for free.

In general, on Ethereum-based chains, reducing gas costs is most beneficial when the swap size is 10k or less.

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