Interpreting Swap / LP events

Let's look into Swap/Liquidity Provision(=yield farming) example transactions to decode what happened!

Vault contract in Linea here

both swap and LPing emits the same topic0,

Swap (address indexed pool, address indexed user, bytes32[] tokenRef, int128[] delta).

- topic0: 0xbaec78ca3218aba6fc32d82b79acdd1a47663d7b8da46e0c00947206d08f2071
- zip(tokenRef, delta) indicates the tokens and their amounts.
-

Example 1 : Swap

https://lineascan.build/tx/0xd284cff083295905ab93b261ba5ed9905e1d61e9de39249f8e957f8f871fe944#eventlog
lineascan.build

You could know these from the Logs above.

```

Copy { pool: 0xe2c67a9b15e9e7ff8a9cb0dfb8fee5609923e5db, user: 0xd466896b200c616de9b9d08e40e912f4f401edfa, tokenRef: [ 0x000000000000000000000000176211869CA2B568F2A7D4EE941E073A821EE1FF, // address of USDC 0xEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE, // this represents ETH ], delta: [ -1736669, // amount of USDC, negative because the user received USDC. 1107379247714709, // amount of ETH, positive because the user paid ETH. ] }

```

- You should interpret sign(+ or -) in target pool's perspective. Negetive for USDC since USDC are removed from the pool and positive for ETH since it is added to the pool.
- See here for the details How to interact with VELOCORE
-

Example 2 : Adding liquidity

https://lineascan.build/tx/0x3f24c49fa8404fea51ecb4a79d204813cd5acdaf06640fdf3e1a7b530cf26fda#eventlog
lineascan.build

```

Copy //If tokenRef address is the pool address, it means you are exchanging with LP token // Exchange with LP token means you are adding or removing liquidity! const isLP = (event) => event.tokenRef.contains(event.pool)

```

```

Copy { pool: 0xf3e3ec2861850dfa6ba3f52a271f499afffb8087, user: 0x1234561fed41dd2d867a038bbdb857f291864225, tokenRef: [ 0x000000000000000000000000CC22F6AA610D1B2A0E89EF228079CB3E1831B1D1, // address of LVC 0x000000000000000000000000F3E3EC2861850DFA6BA3F52A271F499AFFFB8087, // address of the lp token, deducible as it equals the pool address 0xEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE, // this represents ETH ], delta: [ 1000000000000000000, // amount of LVC, positive because the user paid LVC -2000673813932133, // amount of the lp token, negative because the user received lp token 4002695726920, // amount of ETH, positive because the user paid ETH ] }

```

Last updated4 months ago On this page