

MythX Report

Overview

Project Name	zkSwap Finance
Auditor	MythX.io
Source Code	https://github.com/ZkSwapFinance/zf- periphery/tree/main/contracts/paymaster
Mode	Deep
Time	Sat Dec 23 rd 2023
DETECTED VULNERABILITIES	1

Summary

Done	Contract	High Risk Issues	Medium Risk Issues	Low Risk Issues
\checkmark	ZFPaymaster.sol	0	0	1

Reference

ZFPaymaster.sol	https://github.com/ZkSwapFinance/Audit- Reports/blob/main/Original MythX ZFPaymaster.pdf	
MythX Passed Badge on Github	https://github.com/ZkSwapFinance/zf-periphery	
mainnet-contracts		
ZkSwap Finance Mainnet contracts		



REPORT 6586736FF1BCF1001A61D50C

Created Sat Dec 23 2023 05:43:11 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 648fc02af4bf584372592643

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

1

<u>8ff494f1-1d93-472f-a4cb-a1a795695443</u> /paymaster.sol

Started Sat Dec 23 2023 05:43:22 GMT+0000 (Coordinated Universal Time)

Finished Sat Dec 23 2023 06:28:46 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Mythx-Vscode-Extension

Main Source File /Paymaster/Zfpaymaster.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW	
0	0	1	

ISSUES

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/paymaster/zfpaymaster.sol

Locations

```
137
   138
139
   if (_token == NATIVE_TOKEN) {
   (bool success, ) = payable(msg.sender).call{ value: _value }("");
140
   require(success, "_safeTransferETH: failed");
142
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

/paymaster/zfpaymaster.sol

Locations

```
if (_token == NATIVE_TOKEN) {
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   (bool success, ) = payable(msg.sender).call{ value: _value }("");
   require(success, "_safeTransferETH: failed");
141
142
```

LOW A floating pragma is set.

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

/paymaster/zfpaymaster.sol

Locations

```
1 // SPDX-License-Identifier: MIT
   pragma solidity ^0.8.0;
   import "@openzeppelin/contracts/token/ERC20/IERC20.sol";
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

/paymaster/zfpaymaster.sol

Locations

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