

REPORT 62501CD72D60760018751BC3

Created Fri Apr 08 2022 11:30:31 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 6135edf7a6e184c5d2c6ee1e

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

1

<u>cf141aa2-0540-47f8-9b82-279a6fd09f05</u> /batcher/batcher.sol

Started Fri Apr 08 2022 11:30:33 GMT+0000 (Coordinated Universal Time)

Finished Fri Apr 08 2022 11:30:39 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Mythx-Vscode-Extension

Main Source File /Batcher/Batcher.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

/batcher/batcher.sol

Locations

```
7/**

* @notice Stores the deposits for future batching via periphery

* @param amountIn Value of Lp token to be deposited

* @param signature signature verifying that depositor has enough karma and is authorized to deposit by brahma
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

/batcher/batcher.sol

```
127 }
128
129 withdrawLedger[msg.sender] = withdrawLedger msg sender + (amountIn);
130
131 vaultInfo.currentAmount -= amountIn;
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

/batcher/batcher.sol

Locations

```
135
136 /**
137 * @notice Allows user to withdraw LP tokens
138 * @param amount Amount of LP tokens to withdraw
139 * @param recipient Address to receive the LP tokens
140 */
```

UNKNOWN Arithmetic operation "-=" discovered

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

SWC-101

Source file

/batcher/batcher.sol

```
/**

* @notice Allows user to withdraw LP tokens

* @param amount Amount of LP tokens to withdraw

* @param recipient Address to receive the LP tokens

*/

function claimTokens(uint256 amount, address recipient)
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

/batcher/batcher.sol

```
require(amountToDeposit > 0, "NO_DEPOSITS");

uint256 lpTokensReportedByVault = vault deposit

amountToDeposit

address(this)

);
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

```
if (processedAddresses[users[i]]) {
   if (userAmount > 0) {
     uint256 userShare = (userAmount * (lpTokensReceived //
     (amountToDeposit);
     userTokens[users[i]] = userTokens[users[i]] + userShare;
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

/batcher/batcher.sol

```
depositledger[users[i]] = 0;

processedAddresses users i = false

processedAddresses users i = false

i = fals
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

```
267

268 /**

269 * @notice Performs withdraws on the periphery for the supplied users in batch

210 * @param users array of users whose deposits must be resolved

211 */
```

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

/batcher/batcher.sol

```
230 }
231
232 require(amountToWithdraw > 0, "NO_WITHDRAWS");
233
234 uint256 wantTokensReportedByVault = vault.withdraw(
```

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

```
require(amountToWithdraw > 0, "NO_WITHDRAWS");

uint256 wantTokensReportedByVault = vault withdraw
amountToWithdraw,
address(this)
);
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

/batcher/batcher.sol

```
if (processedAddresses[users[i]]) {
   if (userAmount > 0) {
     uint256 userShare = (userAmount * wantTokensReceived /
     amountToWithdraw;
   token.safeTransfer(users[i], userShare);
}
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

```
255  withdrawLedger[users[i]] = 0;
256  }
257  processedAddresses users ill = false.
258  1
259  1
260  261
261  262  264  264
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file

/batcher/batcher.sol

Locations

```
255 | withdrawLedger[users[i]] = 0;
256 |
257 | processedAddresses users i | = false
258 |
259 |
260 |
```

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

/batcher/batcher.sol

```
/// @notice Can be changed by keeper

uint256 public slippageForCurvelp = 30

/// @notice Helper to convert Lp tokens into USDC

/// @dev Burns LpTokens on UST3-Wormhole pool on curve to get USDC

/// @param lpToken Curve Lp Token
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

/batcher/batcher.sol

Locations

UNKNOWN Arithmetic operation "*" discovered

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Source file

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SWC-101

Source file

/batcher/batcher.sol

LOW

A floating pragma is set.

The current pragma Solidity directive is ""^0.8.4"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is SWC-103 especially important if you rely on bytecode-level verification of the code.

Source file

/batcher/batcher.sol

Locations

```
1 // SPDX-License-Identifier: UNLICENSED
   pragma solidity ^0.8.4;
   import "@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.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

/batcher/batcher.sol

Locations

```
177 }
178
179
     require(amountToDeposit > 0, "NO_DEPOSITS");
180
     uint256 lpTokensReportedByVault = vault.deposit(
     amountToDeposit,
182
     {\tt address}({\tt this})
```

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

/batcher/batcher.sol

```
180
     uint256 lpTokensReportedByVault = vault.deposit(
     amountToDep<mark>osit</mark>,
182
     address(this)
183
184
```

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SWC-110

Source file

/batcher/batcher.sol

Locations

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SWC-110

Source file

/batcher/batcher.sol

Locations

```
uint256 userShare = (userAmount * (lpTokensReceived)) /
(amountToDeposit);

userTokens[users[i]] = userTokens[users[i]] + userShare;
depositLedger[users[i]] = 0;
}
```

UNKNOWN Out of bounds array access

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SWC-110

Source file

/batcher/batcher.sol

```
uint256 userShare = (userAmount * (lpTokensReceived)) /
(amountToDeposit);

userTokens[users[i]] = userTokens[users[i]] + userShare;

depositLedger[users[i]] = 0;
}
```

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SWC-110

Source file

/batcher/batcher.sol

Locations

```
207
208 /**
209 * @notice Performs withdraws on the periphery for the supplied users in batch
210 * @param users array of users whose deposits must be resolved
211 */
```

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

/batcher/batcher.sol

Locations

```
207
208 /**
209 * @notice Performs withdraws on the periphery for the supplied users in batch
210 * @param users array of users whose deposits must be resolved
211 */
```

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

/batcher/batcher.sol

```
/**

* @notice Performs withdraws on the periphery for the supplied users in batch

* @param users array of users whose deposits must be resolved

*/

function batchWithdraw(address[] memory users)
```

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

SWC-110

Source file

/batcher/batcher.sol

Locations

```
* @notice Performs withdraws on the periphery for the supplied users in batch

* @param users array of users whose deposits must be resolved

*/

Tunction batchWithdraw(address[] memory users)

external

override
```

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

/batcher/batcher.sol

Locations

```
230
231
232    require(amountToWithdraw > 0, "NO_WITHDRAMS")
233
234    uint256    wantTokensReportedByVault = vault.withdraw(
235    amountToWithdraw,
236    address(this)
```

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

/batcher/batcher.sol

```
233
234    uint256    wantTokensReportedByVault = vault.withdraw(
235    amountToWithdraw,
236    address(this)
237    );
```

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SWC-110

Source file

/batcher/batcher.sol

Locations

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SWC-110

Source file

/batcher/batcher.sol

Locations

```
uint256 userShare = (userAmount * wantTokensReceived) /
amountToWithdraw;

token_safeTransfer(users[i], userShare);

withdrawLedger[users[i]] = 0;
```

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

/batcher/batcher.sol

```
token.safeTransfer(users[i], userShare);

withdrawLedger[users[i]] = 0;

processedAddresses[users[i]] = false;
```

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

SWC-110

Source file

/batcher/batcher.sol

Locations

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

/batcher/batcher.sol

Locations

```
261
262 /*/////
263 INTERNAL HELPERS
264 ////
265 /// @notice Helper to verify signature against verification authority
```

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

/batcher/batcher.sol