

REPORT 61396731D171E20018068691

Created Thu Sep 09 2021 01:45:21 GMT+0000 (Coordinated Universal Time)

Number of analyses 1

User 613960e4a6e18485c0c6ee6c

REPORT SUMMARY

Analyses ID Main source file Detected vulnerabilities

91bc881c-6d36-4e45-b33a-25c06c9f3bbe

SafeTits.sol

2

Started

Finished Thu Sep 09 2021 01:45:21 GMT+0000 (Coordinated Universal Time)

Mode Deep

Client Tool Remythx

Main Source File SafeTits.Sol

DETECTED VULNERABILITIES

(HIGH	(MEDIUM	(LOW
0	0	2

ISSUES

```
UNKNOWN Arithmetic operation "-" discovered
```

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

SWC-101

Source file SafeTits.sol

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
// See: https://github.com/OpenZeppelin/openzeppelin-contracts/pull/522
if (a == 0) return (true, 0);
uint256 c = a * b;
if (c / a != b) return (false, 0);
return (true, c);
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
124 if (a == 0) return (true, 0);

125 uint256 c = a * b;

126 if (c / a != b) return (false, 0);

127 return (true, c);

128 }
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

SafeTits.sol

```
137     unchecked {
138     if (b == 0) return (false, 0);
139     return (true, a / b);
140     }
141     }
```

UNKNOWN Arithmetic operation "%" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

UNKNOWN Arithmetic operation "+" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
164  */
165  function add(uint256 a, uint256 b) internal pure returns (uint256) {
166  return a + b;
167 }
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
178 */
179 function sub(uint256 a, uint256 b) internal pure returns (uint256) {
180 return a - b;
181 }
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

SafeTits.sol

```
192 */
193 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
194 return a * b;
195 }
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

SafeTits.sol

Locations

```
206 */
207 function div(uint256 a, uint256 b) internal pure returns (uint256) {
208 return a / b;
209 }
```

UNKNOWN Arithmetic operation "%" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
222  */
223  function mod(uint256 a, uint256 b) internal pure returns (uint256) {
224  return a % b;
225  }
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
241 | unchecked {
242    require(b <= a, errorMessage);
243    return a - b;
244    }
245  }
```

UNKNOWN Arithmetic operation "/" discovered

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

SWC-101

Source file

SafeTits.sol

```
264 | unchecked {
265 | require(b > 0, errorMessage);
266 | return a / b;
267 | }
268 | }
```

UNKNOWN Arithmetic operation "%" discovered

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

SWC-101

Source file SafeTits.sol Locations

```
286     unchecked {
287     require(b > 0, errorMessage);
288     return a % b;
289     }
290     }
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file
SafeTits.sol
Locations

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

```
781

vint256 private constant MAX = ~uint256(0);

vint256 private _tTotal = 10000000000000 * 10**5;

vint256 private _rTotal = (MAX - (MAX % _tTotal));

vint256 private _tFeeTotal;
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

Source file SafeTits.sol

Locations

```
viint256 private constant MAX = Tuint256(0);

viint256 private _tTotal = 10000000000000 * 10**9;

viint256 private _rTotal = (MAX - MAX % _tTotal );

viint256 private _tFeeTotal;
```

UNKNOWN Arithmetic operation "%" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
781     uint256     private constant MAX = ~uint256(0);
782     uint256     private _tTotal = 100000000000 * 10**9;
783     uint256     private _rTotal = (MAX - (MAX * _tTotal));
784     uint256     private _tFeeTotal;
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

```
bool public swapAndLiquifyEnabled = true;

wint256 public _maxTxAmount = 5000000000 * 10**9;

uint256 public numTokensSellToAddToLiquidity = 1 * 10**6 * 10**9;
```

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

Source file SafeTits.sol

```
bool public swapAndLiquifyEnabled = true;

wint256 public _maxTxAmount = 50000000000 * 10**9;

uint256 public numTokensSellToAddToLiquidity = 1 * 10**6 * 10**9;
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file SafeTits.sol

Locations

```
uint256 public _maxTxAmount = 50000000000 * 10**9;
uint256 public numTokensSellToAddToLiquidity = 1 * 18**6 * 18**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
```

UNKNOWN Arithmetic operation "*" discovered

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

SWC-101

Source file
SafeTits.sol
Locations

```
887
888    uint256 public _maxTxAmount = 50000000000 * 10**9;
889    uint256 public numTokensSellToAddToLiquidity = 1 * 10**6 * 10**9;
810
811    event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
```

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

```
uint256 public _maxTxAmount = 5000000000 * 10**9;
uint256 public numTokensSellToAddToLiquidity = 1 * 10**6 * 10**9;

event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
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Source file
SafeTits.sol
Locations

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810
811  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
```

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file
SafeTits.sol
Locations

```
function includeInReward(address account) external onlyOwner() {

require(_isExcluded[account], "Account is already included");

for (uint256 i = 0; i < _excluded.length; i++) {

if (_excluded[i] == account) {

excluded[i] = _excluded.length - 1];
```

UNKNOWN Arithmetic operation "-" discovered

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

SWC-101

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

Source file

SafeTits.sol Locations

```
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {
    maxTxAmount = _tTotal.mul(maxTxPercent).div(
    18**2
    );
}
```

UNKNOWN Arithmetic operation "++" discovered

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

SWC-101

Source file

SafeTits.sol

```
Locations
```

```
uint256 rSupply = _rTotal;
uint256 tSupply = _tTotal;

for (uint256 i = 0; i < _excluded.length; i++) {
    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);

rSupply = rSupply.sub(_rOwned[_excluded[i]]);
```

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

Source file

SafeTits.sol

```
function calculateTaxFee(uint256 _amount) private view returns (uint256) {

return _amount.mul(_taxFee).div(

106***2

1068

}

}
```

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

Source file

SafeTits.sol Locations

UNKNOWN Arithmetic operation "**" discovered

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

SWC-101

Source file

SafeTits.sol

Locations

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

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

SWC-101

Source file

SafeTits.sol

```
Locations
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.3"". 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

SafeTits.sol

Locations

```
2 | 3 | 4 | pragma solidity ^0.8.3 | 5 |
```

LOW State variable visibility is not set.

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

SWC-108

Source file SafeTits.sol

Locations

```
address public uniswapV2Pair;

bool inSwapAndLiquify;

bool public swapAndLiquifyEnabled = true;
```

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

SafeTits.sol

Locations

```
require(_isExcluded[account], "Account is already included");

for (uint256 i = 0; i < _excluded.length; i++) {

if (_excluded i == account) {

    _excluded[i] = _excluded.length - 1];

    _tOwned[account] = 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

SafeTits.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
SafeTits.sol
Locations

```
for (uint256 i = 0; i < _excluded.length; i++) {
    if (_excluded[i] == account) {
        excluded[i] = _excluded length|-11;
        _tOwned[account] = 0;
        _isExcluded[account] = false;</pre>
```

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
SafeTits.sol
Locations

```
iuint256 tSupply = _tTotal;
for (uint256 i = 0; i < _excluded.length; i++) {
    if (_rOwned[_excluded i_] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
```

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

```
1839     uint256 tSupply = _tTotal;
1840     for (uint256 i = 0; i < _excluded.length; i++) {
1841          if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded i] > tSupply) return (_rTotal, _tTotal);
1842          rSupply = rSupply.sub(_rOwned[_excluded[i]]);
1843          tSupply = tSupply.sub(_tOwned[_excluded[i]]);
```

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 SafeTits.sol

Locations

```
for (uint256 i = 0; i < _excluded.length; i++) {

if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);

rSupply = rSupply.sub(_rOwned[_excluded i ]);

tSupply = tSupply.sub(_tOwned[_excluded[i]]);

1044
}
```

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

SafeTits.sol

Locations

```
if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
rSupply = rSupply.sub(_rOwned[_excluded[i]]);
tSupply = tSupply.sub(_tOwned[_excluded i ]);
}
if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);</pre>
```

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

SafeTits.sol

```
// generate the uniswap pair path of token -> weth
address[] memory path = new address[](2);
path 0 = address(this);
path[1] = uniswapV2Router.WETH();
```

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

```
address[] memory path = new address[](2);

path[0] = address(this);

path 1 = uniswapV2Router.WETH();

approve(address(this), address(uniswapV2Router), tokenAmount);
```