

REPORT 64E1F074F3B80E0019369FEB

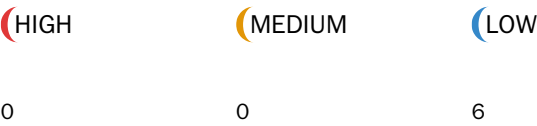
Created	Sun Aug 20 2023 10:52:36 GMT+0000 (Coordinated Universal Time)
Number of analyses	1
User	648fc02af4bf584372592643

## REPORT SUMMARY

Analyses ID	Main source file	Detected vulnerabilities
<a href="#">29926adb-9847-46f9-944a-8a521e0cf61b</a>	/farm/zffarm.sol	6

Started	Sun Aug 20 2023 10:52:46 GMT+0000 (Coordinated Universal Time)
Finished	Sun Aug 20 2023 11:38:21 GMT+0000 (Coordinated Universal Time)
Mode	Deep
Client Tool	Mythx-Vscode-Extension
Main Source File	/Farm/Zffarm.Sol

DETECTED VULNERABILITIES



ISSUES

LOW A control flow decision is made based on The block.timestamp environment variable.

SWC-116

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file  
/farm/zffarm.sol  
Locations

```
214 | startTime = _startTime;
215 |
216 | uint256 length = poolInfo.length;
217 | for (uint256 pid = 0; pid < length; ++pid) {
218 |     PoolInfo storage pool = poolInfo[pid];
219 |     pool.lastRewardTime = startTime;
```

LOW A control flow decision is made based on The block.timestamp environment variable.

SWC-116

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file  
/farm/zffarm.sol  
Locations

```
85 | uint256 lastRewardTime = block.timestamp > startTime ? block.timestamp : startTime;
86 | totalAllocPoint = totalAllocPoint.add(_allocPoint);
87 | poolInfo.push(PoolInfo({
88 |     lpToken: _lpToken,
89 |     allocPoint: _allocPoint,
90 |     lastRewardTime: lastRewardTime,
```

LOW

A control flow decision is made based on The block.timestamp environment variable.

SWC-116

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file

/farm/zffarm.sol

Locations

```
117 | return;
118 | }
119 | uint256 lpSupply = pool.lpToken.balanceOf(address(this));
120 | if (lpSupply == 0 || pool.allocPoint == 0)
121 |     pool.lastRewardTime = block.timestamp;
122 | return;
123 | }
```

LOW

A control flow decision is made based on The block.timestamp environment variable.

SWC-116

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file

/farm/zffarm.sol

Locations

```
70 | uint256 lpSupply = pool.lpToken.balanceOf(address(this));
71 | if (block.timestamp > pool.lastRewardTime && lpSupply != 0) {
72 |     uint256 multiplier = getMultiplier(pool.lastRewardTime, block.timestamp);
73 |     uint256 zfReward = multiplier.mul(zfPerSecond).mul(pool.allocPoint).div(totalAllocPoint);
74 |     accZFPerShare = accZFPerShare.add(zfReward.mul(1e12).div(lpSupply));
75 | }
```

LOW

A control flow decision is made based on The block.timestamp environment variable.

SWC-116

The block.timestamp environment variable is used to determine a control flow decision. Note that the values of variables like coinbase, gaslimit, block number and timestamp are predictable and can be manipulated by a malicious miner. Also keep in mind that attackers know hashes of earlier blocks. Don't use any of those environment variables as sources of randomness and be aware that use of these variables introduces a certain level of trust into miners.

Source file

/farm/zffarm.sol

Locations

```
70 | uint256 lpSupply = pool.lpToken.balanceOf(address(this));
71 | if (block.timestamp > pool.lastRewardTime && lpSupply != 0) {
72 |     uint256 multiplier = getMultiplier(pool.lastRewardTime, block.timestamp);
73 |     uint256 zfReward = multiplier.mul(zfPerSecond).mul(pool.allocPoint).div(totalAllocPoint);
74 |     accZFPerShare = accZFPerShare.add(zfReward.mul(1e12).div(lpSupply));
75 | }
76 | uint256 pending = user.amount.mul(accZFPerShare).div(1e12).sub(user.rewardDebt);
77 | return pending;
78 | }
79 |
80 | function add(uint256 _allocPoint, IERC20 _lpToken, uint16 _depositFeeBP, bool _withUpdate) public onlyOwner {
81 |     require(_depositFeeBP <= MAXIMUM_DEPOSIT_FEE, "add: invalid deposit fee");
82 |     if (_withUpdate) {
```