



Bitindi Chain Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Bitindi Chain	BNI	Binance Smart Chain

Addresses

Contract address	0x77fc65deda64f0cca9e3aea7b9d8521f4151882e
Contract deployer address	0xFB1E1d8b25Ab32F3353C23f8420B68A0376d5083

Project Website

<https://bitindi.com/>

Codebase

<https://bscscan.com/address/0x77fc65deda64f0cca9e3aea7b9d8521f4151882e#code>

SUMMARY

Bitindi Chain (Bitindi) is a decentralized, high-efficiency, and energy-saving layer-1 public chain. It is compatible with smart contracts and supports high-performance transactions. The endogenous token of Bitindi is \$BNI and it adopts the PoS consensus mechanism. Bitindi will continue to onboard billions of users with ultra-fast transactions, tiny fees, easy-to-use apps, and environmentally friendliness.

| Contract Summary

Documentation Quality

Bitindi Chain provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by Bitindi Chain with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

| Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 118, 119, 121, 161, 162, 165 and 176.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 134, 134, 158, 158, 159, 159, 163, 163, 325, 353, 424, 431, 431, 431, 431, 432, 432, 436, 436, 436, 437, 437, 441, 441, 445, 445, 449, 449, 453, 453, 454, 454, 456, 456, 457, 458, 474, 474, 479, 479, 479, 479, 480, 480, 525, 526, 556, 570, 570, 630, 630, 631, 631, 646, 651, 704, 704, 706, 710, 715, 716, 716, 717 and 717.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 6.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 586, 587, 716, 717 and 717.
- SWC-115 | tx.origin should not be used for authorization, use msg.sender instead on lines 514.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 625.

CONCLUSION

We have audited the Bitindi Chain project released on October 2022 to discover issues and identify potential security vulnerabilities in Bitindi Chain Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the Bitindi Chain smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set, weak sources of randomness, tx.origin as a part of authorization control, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value. The current pragma Solidity directive is `">=0.6.00.9.0"`. 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. It is best practice to set the visibility of state variables explicitly. The default visibility for `__tOwned` is internal. Other possible visibility settings are public and private. Use of `tx.origin` as a part of authorization control, tx.origin environment variable has been found to influence a control flow decision. Note that using `tx.origin` as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use `msg.sender` instead.

AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
Unprotected Ether Withdrawal	SWC-105	Due to missing or insufficient access controls, malicious parties can withdraw from the contract.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Uninitialized Storage Pointer	SWC-109	Uninitialized local storage variables can point to unexpected storage locations in the contract.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS

DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	ISSUE FOUND
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	PASS
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	ISSUE FOUND
Write to Arbitrary Storage Location	SWC-124	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	PASS
Incorrect Inheritance Order	SWC-125	When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS
Insufficient Gas Griefing	SWC-126	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	PASS
Arbitrary Jump Function	SWC-127	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	PASS

Typographical Error	SWC-129	A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable.	PASS
Override control character	SWC-130	Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract.	PASS
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	PASS
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	PASS
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	PASS
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	PASS
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	PASS

SMART CONTRACT ANALYSIS

Started	Saturday Oct 08 2022 16:48:51 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Oct 09 2022 12:28:49 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	BitindiChain.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged

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SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
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SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+=" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
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SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-115	USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-120	POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 134

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
133     uint8 constant private _decimals = 18;
134     uint256 constant private _tTotal = startingSupply * (10 ** _decimals);
135
136     struct Fees {
137         uint16 buyFee;
138     }
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 134

low SEVERITY

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Source File

- BitindiChain.sol

Locations

```
133  uint8 constant private _decimals = 18;
134  uint256 constant private _tTotal = startingSupply * (10 ** _decimals);
135
136  struct Fees {
137    uint16 buyFee;
138  }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 158

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
157
158  uint256 private _maxTxAmount = (_tTotal * 1) / 100;
159  uint256 private _maxWalletSize = (_tTotal * 1) / 100;
160
161  Cashier cashier;
162
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 158

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
157
158  uint256 private _maxTxAmount = (_tTotal * 1) / 100;
159  uint256 private _maxWalletSize = (_tTotal * 1) / 100;
160
161  Cashier cashier;
162
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 159

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
158 uint256 private _maxTxAmount = (_tTotal * 1) / 100;  
159 uint256 private _maxWalletSize = (_tTotal * 1) / 100;  
160  
161 Cashier cashier;  
162 uint256 reflectorGas = 300000;  
163
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 159

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
158 uint256 private _maxTxAmount = (_tTotal * 1) / 100;
159 uint256 private _maxWalletSize = (_tTotal * 1) / 100;
160
161 Cashier cashier;
162 uint256 reflectorGas = 300000;
163
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 163

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
162  uint256 reflectorGas = 300000;  
163  uint256 public minimumHoldForRewards = 10_000 * (10**_decimals);  
164  
165  bool inSwap;  
166  bool public contractSwapEnabled = false;  
167
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 163

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
162  uint256 reflectorGas = 300000;  
163  uint256 public minimumHoldForRewards = 10_000 * (10**_decimals);  
164  
165  bool inSwap;  
166  bool public contractSwapEnabled = false;  
167
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 325

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
324     if (_allowances[sender][msg.sender] != type(uint256).max) {  
325         _allowances[sender][msg.sender] -= amount;  
326     }  
327  
328     return _transfer(sender, recipient, amount);  
329
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 353

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
352   if (timeSinceLastPair != 0) {  
353       require(block.timestamp - timeSinceLastPair > 3 days, "3 Day cooldown.");  
354   }  
355   lpPairs[pair] = true;  
356   timeSinceLastPair = block.timestamp;  
357
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 424

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
423     require(transferFee <= maxTransferTaxes, "Cannot exceed maximums.");
424     require(buyFee + sellFee <= maxRoundtripTax, "Cannot exceed roundtrip maximum.");
425     _taxRates.buyFee = buyFee;
426     _taxRates.sellFee = sellFee;
427     _taxRates.transferFee = transferFee;
428
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 431

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
430     function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {  
431         require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt  
must be above 0.5% of total supply.");  
432         _maxTxAmount = (_tTotal * percent) / divisor;  
433     }  
434  
435
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 431

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
430     function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {
431         require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
432         _maxTxAmount = (_tTotal * percent) / divisor;
433     }
434
435
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 431

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Locations

```
430     function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {  
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must be above 0.5% of total supply.");  
432         _maxTxAmount = (_tTotal * percent) / divisor;  
433     }  
434  
435
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

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Locations

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430     function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {
431         require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
432         _maxTxAmount = (_tTotal * percent) / divisor;
433     }
434
435
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 432

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
431     require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
432     _maxTxAmount = (_tTotal * percent) / divisor;
433 }
434
435 function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
436
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 432

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
431     require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000), "Max Transaction amt
must be above 0.5% of total supply.");
432     _maxTxAmount = (_tTotal * percent) / divisor;
433 }
434
435 function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
436
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 436

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
435     function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {  
436         require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be  
         above 1% of total supply.");  
437         _maxWalletSize = (_tTotal * percent) / divisor;  
438     }  
439  
440
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 436

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
435     function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {  
436         require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be  
         above 1% of total supply.");  
437         _maxWalletSize = (_tTotal * percent) / divisor;  
438     }  
439  
440
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 436

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
435     function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {  
436         require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be  
         above 1% of total supply.");  
437         _maxWalletSize = (_tTotal * percent) / divisor;  
438     }  
439  
440
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 437

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
436   require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
437   _maxWalletSize = (_tTotal * percent) / divisor;
438   }
439
440   function getMaxTX() public view returns (uint256) {
441
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 437

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
436     require((_tTotal * percent) / divisor >= (_tTotal / 100), "Max Wallet amt must be
above 1% of total supply.");
437     _maxWalletSize = (_tTotal * percent) / divisor;
438 }
439
440 function getMaxTX() public view returns (uint256) {
441
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 441

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
440     function getMaxTX() public view returns (uint256) {  
441         return _maxTxAmount / (10**_decimals);  
442     }  
443  
444     function getMaxWallet() public view returns (uint256) {  
445
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 441

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
440     function getMaxTX() public view returns (uint256) {  
441         return _maxTxAmount / (10**_decimals);  
442     }  
443  
444     function getMaxWallet() public view returns (uint256) {  
445
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 445

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
444     function getMaxWallet() public view returns (uint256) {  
445         return _maxWalletSize / (10**_decimals);  
446     }  
447  
448     function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view  
returns (uint256) {  
449
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 445

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
444     function getMaxWallet() public view returns (uint256) {  
445         return _maxWalletSize / (10**_decimals);  
446     }  
447  
448     function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view  
returns (uint256) {  
449
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 449

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
448     function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
449     return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
450 }
451
452     function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
453
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 449

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
448     function getTokenAmountAtPriceImpact(uint256 priceImpactInHundreds) external view
returns (uint256) {
449     return((balanceOf(lpPair) * priceImpactInHundreds) / masterTaxDivisor);
450 }
451
452     function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
453
```


SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 453

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
452     function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
453         swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
454         swapAmount = (_tTotal * amountPercent) / amountDivisor;
455         require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
456         require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457     }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 453

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
452  function setSwapSettings(uint256 thresholdPercent, uint256 thresholdDivisor,
uint256 amountPercent, uint256 amountDivisor) external onlyOwner {
453      swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
454      swapAmount = (_tTotal * amountPercent) / amountDivisor;
455      require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
456      require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 454

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
453     swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
454     swapAmount = (_tTotal * amountPercent) / amountDivisor;
455     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
456     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
458
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 454

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
453     swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor;
454     swapAmount = (_tTotal * amountPercent) / amountDivisor;
455     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
456     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
458
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 456

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
455     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
456     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
458     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
459 }
460
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 456

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
455     require(swapThreshold <= swapAmount, "Threshold cannot be above amount.");
456     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
458     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
459 }
460
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 457

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
456     require(swapAmount <= (balanceOf(lpPair) * 150) / masterTaxDivisor, "Cannot be
above 1.5% of current PI.");
457     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
458     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
459 }
460
461
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 458

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
457     require(swapAmount >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of total
supply.");
458     require(swapThreshold >= _tTotal / 1_000_000, "Cannot be lower than 0.00001% of
total supply.");
459 }
460
461 function setPriceImpactSwapAmount(uint256 priceImpactSwapPercent) external
onlyOwner {
462
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 474

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
473     function setRewardsProperties(uint256 _minPeriod, uint256 _minReflection, uint256
minReflectionMultiplier) external onlyOwner {
474         _minReflection = _minReflection * 10**minReflectionMultiplier;
475         cashier.setRewardsProperties(_minPeriod, _minReflection);
476     }
477
478
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 474

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
473     function setRewardsProperties(uint256 _minPeriod, uint256 _minReflection, uint256
minReflectionMultiplier) external onlyOwner {
474         _minReflection = _minReflection * 10**minReflectionMultiplier;
475         cashier.setRewardsProperties(_minPeriod, _minReflection);
476     }
477
478
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 479

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
478     function setMinimumHoldForRewards(uint256 percent, uint256 divisor) external
onlyOwner {
479     require((_tTotal * percent) / divisor < (_tTotal * 2) / 100, "Cannot exceed maximum
amount for this value.");
480     minimumHoldForRewards = (_tTotal * percent) / divisor;
481 }
482
483
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 479

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
478     function setMinimumHoldForRewards(uint256 percent, uint256 divisor) external
onlyOwner {
479     require((_tTotal * percent) / divisor < (_tTotal * 2) / 100, "Cannot exceed maximum
amount for this value.");
480     minimumHoldForRewards = (_tTotal * percent) / divisor;
481 }
482
483
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 479

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
478     function setMinimumHoldForRewards(uint256 percent, uint256 divisor) external
onlyOwner {
479     require((_tTotal * percent) / divisor < (_tTotal * 2) / 100, "Cannot exceed maximum
amount for this value.");
480     minimumHoldForRewards = (_tTotal * percent) / divisor;
481 }
482
483
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 479

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
478     function setMinimumHoldForRewards(uint256 percent, uint256 divisor) external
onlyOwner {
479     require((_tTotal * percent) / divisor < (_tTotal * 2) / 100, "Cannot exceed maximum
amount for this value.");
480     minimumHoldForRewards = (_tTotal * percent) / divisor;
481 }
482
483
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 480

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
479     require((_tTotal * percent) / divisor < (_tTotal * 2) / 100, "Cannot exceed maximum
amount for this value.");
480     minimumHoldForRewards = (_tTotal * percent) / divisor;
481 }
482
483 function setReflectorSettings(uint256 gas) external onlyOwner {
484
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 480

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
479     require((_tTotal * percent) / divisor < (_tTotal * 2) / 100, "Cannot exceed maximum
amount for this value.");
480     minimumHoldForRewards = (_tTotal * percent) / divisor;
481 }
482
483 function setReflectorSettings(uint256 gas) external onlyOwner {
484
```


SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 525

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
524 function _basicTransfer(address from, address to, uint256 amount) internal returns
(bool) {
525     _tOwned[from] -= amount;
526     _tOwned[to] += amount;
527     emit Transfer(from, to, amount);
528     return true;
529 }
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 526

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
525     _tOwned[from] -= amount;  
526     _tOwned[to] += amount;  
527     emit Transfer(from, to, amount);  
528     return true;  
529 }  
530
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 556

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
555     if (!_isExcludedFromLimits[to]) {  
556         require(balanceOf(to) + amount <= _maxWalletSize, "Transfer amount exceeds the  
maxWalletSize.");  
557     }  
558 }  
559 }  
560
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 570

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
569     uint256 swapAmt = swapAmount;
570     if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
571     if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
572     contractSwap(contractTokenBalance);
573 }
574
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 570

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
569     uint256 swapAmt = swapAmount;
570     if (piContractSwapsEnabled) { swapAmt = (balanceOf(lpPair) * piSwapPercent) /
masterTaxDivisor; }
571     if (contractTokenBalance >= swapAmt) { contractTokenBalance = swapAmt; }
572     contractSwap(contractTokenBalance);
573 }
574
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 630

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
629     allowedPresaleExclusion = false;
630     swapThreshold = (balanceOf(lpPair) * 10) / 10000;
631     swapAmount = (balanceOf(lpPair) * 30) / 10000;
632 }
633
634
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 630

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
629     allowedPresaleExclusion = false;
630     swapThreshold = (balanceOf(lpPair) * 10) / 10000;
631     swapAmount = (balanceOf(lpPair) * 30) / 10000;
632 }
633
634
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 631

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
630     swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
631     swapAmount = (balanceOf(lpPair) * 30) / 10000;  
632 }  
633  
634     function finalizeTransfer(address from, address to, uint256 amount, bool buy, bool  
sell, bool other) internal returns (bool) {  
635
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 631

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
630     swapThreshold = (balanceOf(lpPair) * 10) / 10000;  
631     swapAmount = (balanceOf(lpPair) * 30) / 10000;  
632 }  
633  
634     function finalizeTransfer(address from, address to, uint256 amount, bool buy, bool  
sell, bool other) internal returns (bool) {  
635
```

SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 646

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
645
646  _tOwned[from] -= amount;
647  uint256 amountReceived = amount;
648  if (takeFee) {
649    amountReceived = takeTaxes(from, amount, buy, sell, other);
650
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 651

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
650     }  
651     _tOwned[to] += amountReceived;  
652     emit Transfer(from, to, amountReceived);  
653     if (!_hasLiqBeenAdded) {  
654         _checkLiquidityAdd(from, to);  
655     }
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 704

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
703     || block.chainid == 56)) { currentFee = 4500; }  
704     uint256 feeAmount = amount * currentFee / masterTaxDivisor;  
705     if (feeAmount > 0) {  
706         _tOwned[address(this)] += feeAmount;  
707         emit Transfer(from, address(this), feeAmount);  
708     }
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 704

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
703     || block.chainid == 56)) { currentFee = 4500; }
704     uint256 feeAmount = amount * currentFee / masterTaxDivisor;
705     if (feeAmount > 0) {
706         _tOwned[address(this)] += feeAmount;
707         emit Transfer(from, address(this), feeAmount);
708     }
```

SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 706

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
705     if (feeAmount > 0) {  
706         _tOwned[address(this)] += feeAmount;  
707         emit Transfer(from, address(this), feeAmount);  
708     }  
709  
710
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 710

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
709
710     return amount - feeAmount;
711 }
712
713     function multiSendTokens(address[] memory accounts, uint256[] memory amounts)
external onlyOwner {
714
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 715

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
714     require(accounts.length == amounts.length, "Lengths do not match.");
715     for (uint16 i = 0; i < accounts.length; i++) {
716         require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
717         finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
718     }
719
```


SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 716

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
715     for (uint16 i = 0; i < accounts.length; i++) {  
716         require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");  
717         finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,  
true);  
718     }  
719 }  
720
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 716

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
715   for (uint16 i = 0; i < accounts.length; i++) {  
716       require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");  
717       finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,  
true);  
718   }  
719   }  
720
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 717

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
716     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
717     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
718   }
719 }
720
721
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 717

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
716     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
717     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
718   }
719 }
720
721
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 6

low SEVERITY

The current pragma Solidity directive is `">=0.6.0<0.9.0"`. 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

- BitindiChain.sol

Locations

```
5 // SPDX-License-Identifier: MIT
6 pragma solidity >=0.6.0 <0.9.0;
7
8 interface IERC20 {
9     function totalSupply() external view returns (uint256);
10
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 118

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
117 contract BitindiChain is IERC20 {
118     mapping (address => uint256) _tOwned;
119     mapping (address => bool) lpPairs;
120     uint256 private timeSinceLastPair = 0;
121     mapping (address => mapping (address => uint256)) _allowances;
122 }
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 119

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
118 mapping (address => uint256) _tOwned;
119 mapping (address => bool) lpPairs;
120 uint256 private timeSinceLastPair = 0;
121 mapping (address => mapping (address => uint256)) _allowances;
122 mapping (address => bool) private _isExcludedFromProtection;
123
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 121

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
120  uint256 private timeSinceLastPair = 0;
121  mapping (address => mapping (address => uint256)) _allowances;
122  mapping (address => bool) private _isExcludedFromProtection;
123  mapping (address => bool) private _isExcludedFromFees;
124  mapping (address => bool) private _isExcludedFromLimits;
125
```


SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 161

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
160
161  Cashier cashier;
162  uint256 reflectorGas = 300000;
163  uint256 public minimumHoldForRewards = 10_000 * (10**_decimals);
164
165
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 162

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
161  Cashier cashier;  
162  uint256 reflectorGas = 300000;  
163  uint256 public minimumHoldForRewards = 10_000 * (10**_decimals);  
164  
165  bool inSwap;  
166
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 165

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
164
165  bool inSwap;
166  bool public contractSwapEnabled = false;
167  uint256 public swapThreshold;
168  uint256 public swapAmount;
169
```

SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 176

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
175  bool public _hasLiqBeenAdded = false;
176  Protections protections;
177
178  modifier inSwapFlag() {
179    inSwap = true;
180  }
```

SWC-115 | USE OF "TX.ORIGIN" AS A PART OF AUTHORIZATION CONTROL.

LINE 514

low SEVERITY

The tx.origin environment variable has been found to influence a control flow decision. Note that using "tx.origin" as a security control might cause a situation where a user inadvertently authorizes a smart contract to perform an action on their behalf. It is recommended to use "msg.sender" instead.

Source File

- BitindiChain.sol

Locations

```
513    && to != _owner
514    && tx.origin != _owner
515    && !_liquidityHolders[to]
516    && !_liquidityHolders[from]
517    && to != DEAD
518
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 586

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
585     address[] memory path = new address[](2);
586     path[0] = address(this);
587     path[1] = dexRouter.WETH();
588
589     try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(
590
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 587

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
586 path[0] = address(this);  
587 path[1] = dexRouter.WETH();  
588  
589 try dexRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(  
590 contractTokenBalance,  
591
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 716

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
715   for (uint16 i = 0; i < accounts.length; i++) {  
716       require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");  
717       finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,  
true);  
718   }  
719   }  
720
```


SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 717

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
716     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
717     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
718   }
719 }
720
721
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 717

low SEVERITY

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

Source File

- BitindiChain.sol

Locations

```
716     require(balanceOf(msg.sender) >= amounts[i]*10**_decimals, "Not enough tokens.");
717     finalizeTransfer(msg.sender, accounts[i], amounts[i]*10**_decimals, false, false,
true);
718   }
719 }
720
721
```

SWC-120 | POTENTIAL USE OF "BLOCK.NUMBER" AS SOURCE OF RANDOMNESS.

LINE 625

low SEVERITY

The environment variable "block.number" looks like it might be used as a source of randomness. 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

- BitindiChain.sol

Locations

```
624     }
625     try protections.setLaunch(lpPair, uint32(block.number), uint64(block.timestamp),
_decimals) {} catch {}
626     try cashier.initialize() {} catch {}
627     tradingEnabled = true;
628     processReflect = true;
629
```

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