

Retrogression

Smart Contract Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Retrogression	RTGN	Ethereum

Addresses

Contract address	0x304243A820D4A3718BecC89a3F33513586162CF0
Contract deployer address	0x387A76e6642385778Cbc465FA8bf310045F41b25

Project Website

https://retrogression.filmcrib.io/

Codebase

https://etherscan.io/address/0x304243A820D4A3718BecC89a3F33513586162CF0#code



SUMMARY

Welcome to the FILM CRI3 and Retrogression Film, NFT and gaming Studio. Buy the tokens, play the game, collect the NFT's, watch the streamer.

Contract Summary

Documentation Quality

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

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

• Standard solidity basecode and rules are already followed by Retrogression with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 180, 199, 221, 254, 256, 277, 278, 303, 305, 635, 647, 930, 930, 932, 933, 939, 941, 945, 945, 947, 951, 973, 980, 985, 986, 992, 997, 1001, 1008, 1013, 1014, 1020, 1025, 1030, 1035, 1040, 1148, 1148, 1149, 1149, 1150, 1150, 1151, 1151, 1184, 1184, 1192, 1192, 1287, 1487, 1487, 1495, 1495, 1496, 1496, 1529 and 1529.
- 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 1402 and 1403.



CONCLUSION

We have audited the Retrogression project released on February-2022 to discover issues and identify potential security vulnerabilities in Retrogression 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 a satisfactory result with some low-risk issues.

The issues found in the Retrogression 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. It is recommended to use vetted safe math libraries for arithmetic operations consistently.



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.		
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.	PASS	
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.	t PASS	
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	ed 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	, ,		
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.		



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.	
Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
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.	
Incorrect Constructor Name	SWC-118	Constructors are special functions that are called only once during the contract creation.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	
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.	
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/.	
Insufficient Gas Griefing	SWC-126	Insufficient gas griefing attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	
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.	
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.	
Unused variables	SWC-131 SWC-135	Unused variables are allowed in Solidity and they do not pose a direct security issue.	
Unexpected Ether balance	SWC-132	Contracts can behave erroneously when they strictly assume a specific Ether balance.	
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.	
Hardcoded gas amount	SWC-134	The transfer() and send() functions forward a fixed amount of 2300 gas.	
Unencrypted Private Data	SWC-136	It is a common misconception that private type variables cannot be read.	



SMART CONTRACT ANALYSIS

Started	Monday Feb 14 2022 01:04:17 GMT+0000 (Coordinated Universal Time)		
Finished	Tuesday Feb 15 2022 12:08:51 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	Retrogression.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



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-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-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 180

low SEVERITY

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

Source File

- Retrogression.sol

```
179 unchecked {
180   _approve(sender, _msgSender(), currentAllowance - amount);
181  }
182
183   return true;
184
```



LINE 199

low SEVERITY

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

Source File

- Retrogression.sol

```
function increaseAllowance(address spender, uint256 addedValue) public virtual
returns (bool) {

199    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);

200    return true;

201  }

202
203
```



LINE 221

low SEVERITY

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

Source File

- Retrogression.sol

```
unchecked {
221    _approve(_msgSender(), spender, currentAllowance - subtractedValue);
222 }
223
224    return true;
225
```



LINE 254

low SEVERITY

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

Source File

- Retrogression.sol

```
unchecked {
254   _balances[sender] = senderBalance - amount;
255  }
256   _balances[recipient] += amount;
257
258
```



LINE 256

low SEVERITY

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

Source File

- Retrogression.sol

```
255 }
256 _balances[recipient] += amount;
257
258 emit Transfer(sender, recipient, amount);
259
260
```



LINE 277

low SEVERITY

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

Source File

- Retrogression.sol

```
276
277  _totalSupply += amount;
278  _balances[account] += amount;
279  emit Transfer(address(0), account, amount);
280
281
```



LINE 278

low SEVERITY

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

Source File

- Retrogression.sol

```
__totalSupply += amount;

__balances[account] += amount;

__totalSupply += amount;

__balances[account] += amount;

__totalSupply += amount;

__tota
```



LINE 303

low SEVERITY

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

Source File

- Retrogression.sol

```
302 unchecked {
303   _balances[account] = accountBalance - amount;
304  }
305   _totalSupply -= amount;
306
307
```



LINE 305

low SEVERITY

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

Source File

- Retrogression.sol

```
304  }
305  _totalSupply -= amount;
306
307  emit Transfer(account, address(0), amount);
308
309
```



LINE 635

low SEVERITY

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

Source File

- Retrogression.sol

```
634  ) internal {
635    uint256 newAllowance = token.allowance(address(this), spender) + value;
636    _callOptionalReturn(token, abi.encodeWithSelector(token.approve.selector, spender,
newAllowance));
637  }
638
639
```



LINE 647

low SEVERITY

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

Source File

- Retrogression.sol

```
646    require(oldAllowance >= value, "SafeERC20: decreased allowance below zero");
647    uint256    newAllowance = oldAllowance - value;
648    _callOptionalReturn(token, abi.encodeWithSelector(token.approve.selector, spender,
    newAllowance));
649    }
650  }
651
```



LINE 930

low SEVERITY

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

Source File

- Retrogression.sol

```
929
930 require(!(a == - 2**255 && b == -1) && !(b == - 2**255 && a == -1));
931
932 int256 c = a * b;
933 require((b == 0) || (c / b == a));
934
```



LINE 930

low SEVERITY

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

Source File

- Retrogression.sol

```
929
930 require(!(a == - 2**255 && b == -1) && !(b == - 2**255 && a == -1));
931
932 int256 c = a * b;
933 require((b == 0) || (c / b == a));
934
```



LINE 932

low SEVERITY

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

Source File

- Retrogression.sol

```
931

932  int256 c = a * b;

933  require((b == 0) || (c / b == a));

934  return c;

935 }

936
```



LINE 933

low SEVERITY

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

Source File

- Retrogression.sol

```
932 int256 c = a * b;

933 require((b == 0) || (c / b == a));

934 return c;

935 }

936

937
```



LINE 939

low SEVERITY

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

Source File

- Retrogression.sol

```
938

939 require(!(a == - 2**255 && b == -1) && (b > 0));

940

941 return a / b;

942 }

943
```



LINE 941

low SEVERITY

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

Source File

- Retrogression.sol

```
940
941 return a / b;
942 }
943
944 function sub(int256 a, int256 b) internal pure returns (int256) {
945
```



LINE 945

low SEVERITY

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

Source File

- Retrogression.sol

```
944 function sub(int256 a, int256 b) internal pure returns (int256) {
945 require((b >= 0 && a - b <= a) || (b < 0 && a - b > a));
946
947 return a - b;
948 }
949
```



LINE 945

low SEVERITY

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

Source File

- Retrogression.sol

```
944 function sub(int256 a, int256 b) internal pure returns (int256) {
945 require((b >= 0 && a - b <= a) || (b < 0 && a - b > a));
946
947 return a - b;
948 }
949
```



LINE 947

low SEVERITY

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

Source File

- Retrogression.sol

```
946
947 return a - b;
948 }
949
950 function add(int256 a, int256 b) internal pure returns (int256) {
951
```



LINE 951

low SEVERITY

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

Source File

- Retrogression.sol

```
950 function add(int256 a, int256 b) internal pure returns (int256) {
951 int256 c = a + b;
952 require((b >= 0 && c >= a) || (b < 0 && c < a));
953 return c;
954 }
955
```



LINE 973

low SEVERITY

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

Source File

- Retrogression.sol

```
972 function tryAdd(uint256 a, uint256 b) internal pure returns (bool, uint256) {
973    uint256 c = a + b;
974    if (c < a) return (false, 0);
975    return (true, c);
976    }
977
```



LINE 980

low SEVERITY

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

Source File

- Retrogression.sol

```
979  if (b > a) return (false, 0);
980  return (true, a - b);
981  }
982
983  function tryMul(uint256 a, uint256 b) internal pure returns (bool, uint256) {
984
```



LINE 985

low SEVERITY

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

Source File

- Retrogression.sol

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

985 uint256 c = a * b;

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

987 return (true, c);

988 }

989
```



LINE 986

low SEVERITY

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

Source File

- Retrogression.sol

```
985  uint256 c = a * b;

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

987  return (true, c);

988  }

989

990
```



LINE 992

low SEVERITY

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

Source File

- Retrogression.sol

```
991  if (b == 0) return (false, 0);
992  return (true, a / b);
993  }
994
995  function tryMod(uint256 a, uint256 b) internal pure returns (bool, uint256) {
996
```



LINE 997

low SEVERITY

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

Source File

- Retrogression.sol

```
996 if (b == 0) return (false, 0);
997 return (true, a % b);
998 }
999
1000 function add(uint256 a, uint256 b) internal pure returns (uint256) {
1001
```



LINE 1001

low SEVERITY

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

Source File

- Retrogression.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
   uint256 c = a + b;
   require(c >= a, "SafeMath: addition overflow");
   return c;
   1004 }
```



LINE 1008

low SEVERITY

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

Source File

- Retrogression.sol

```
1007 require(b <= a, "SafeMath: subtraction overflow");
1008 return a - b;
1009 }
1010
1011 function mul(uint256 a, uint256 b) internal pure returns (uint256) {
1012</pre>
```



LINE 1013

low SEVERITY

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

Source File

- Retrogression.sol

```
1012  if (a == 0) return 0;
1013  uint256 c = a * b;
1014  require(c / a == b, "SafeMath: multiplication overflow");
1015  return c;
1016  }
1017
```



LINE 1014

low SEVERITY

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

Source File

- Retrogression.sol

```
1013    uint256    c = a * b;
1014    require(c / a == b, "SafeMath: multiplication overflow");
1015    return c;
1016    }
1017
1018
```



LINE 1020

low SEVERITY

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

Source File

- Retrogression.sol

```
1019 require(b > 0, "SafeMath: division by zero");
1020 return a / b;
1021 }
1022
1023 function mod(uint256 a, uint256 b) internal pure returns (uint256) {
1024
```



LINE 1025

low SEVERITY

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

Source File

- Retrogression.sol

```
1024 require(b > 0, "SafeMath: modulo by zero");
1025 return a % b;
1026 }
1027
1028 function sub(uint256 a, uint256 b, string memory errorMessage) internal pure returns (uint256) {
1029
```



LINE 1030

low SEVERITY

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

Source File

- Retrogression.sol

```
1029 require(b <= a, errorMessage);
1030 return a - b;
1031 }
1032
1033 function div(uint256 a, uint256 b, string memory errorMessage) internal pure
returns (uint256) {
1034</pre>
```



LINE 1035

low SEVERITY

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

Source File

- Retrogression.sol

```
1034 require(b > 0, errorMessage);
1035 return a / b;
1036 }
1037
1038 function mod(uint256 a, uint256 b, string memory errorMessage) internal pure
returns (uint256) {
1039
```



LINE 1040

low SEVERITY

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

Source File

- Retrogression.sol

```
1039 require(b > 0, errorMessage);
1040 return a % b;
1041 }
1042 }
1043
1044
```



LINE 1148

low SEVERITY

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

Source File

- Retrogression.sol

```
1147

1148    swapTokensAtAmount = 2500000 * (10**18);

1149    _maxWallet = 5000000 * (10**18);

1150    _maxBuy = 2500000 * (10**18);

1151    _maxSell = 2500000 * (10**18);

1152
```



LINE 1148

low SEVERITY

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

Source File

- Retrogression.sol

```
1147
1148    swapTokensAtAmount = 2500000 * (10**18);
1149    _maxWallet = 5000000 * (10**18);
1150    _maxBuy = 2500000 * (10**18);
1151    _maxSell = 2500000 * (10**18);
1152
```



LINE 1149

low SEVERITY

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

Source File

- Retrogression.sol

```
1148 swapTokensAtAmount = 2500000 * (10**18);

1149 _maxWallet = 5000000 * (10**18);

1150 _maxBuy = 2500000 * (10**18);

1151 _maxSell = 2500000 * (10**18);

1152

1153
```



LINE 1149

low SEVERITY

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

Source File

- Retrogression.sol



LINE 1150

low SEVERITY

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

Source File

- Retrogression.sol

```
1149    _maxWallet = 5000000 * (10**18);
1150    _maxBuy = 2500000 * (10**18);
1151    _maxSell = 2500000 * (10**18);
1152
1153    totalBuyFees = _buyProductionFee.add(_buyMarketingFee).add(_buyFilmCribFee);
1154
```



LINE 1150

low SEVERITY

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

Source File

- Retrogression.sol

```
1149    _maxWallet = 5000000 * (10**18);
1150    _maxBuy = 2500000 * (10**18);
1151    _maxSell = 2500000 * (10**18);
1152
1153    totalBuyFees = _buyProductionFee.add(_buyMarketingFee).add(_buyFilmCribFee);
1154
```



LINE 1151

low SEVERITY

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

Source File

- Retrogression.sol

```
1150   _maxBuy = 2500000 * (10**18);
1151   _maxSell = 2500000 * (10**18);
1152
1153   totalBuyFees = _buyProductionFee.add(_buyMarketingFee).add(_buyFilmCribFee);
1154   totalSellFees = _sellProductionFee.add(_sellMarketingFee).add(_sellFilmCribFee);
1155
```



LINE 1151

low SEVERITY

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

Source File

- Retrogression.sol

```
1150    _maxBuy = 2500000 * (10**18);
1151    _maxSell = 2500000 * (10**18);
1152
1153    totalBuyFees = _buyProductionFee.add(_buyMarketingFee).add(_buyFilmCribFee);
1154    totalSellFees = _sellProductionFee.add(_sellMarketingFee).add(_sellFilmCribFee);
1155
```



LINE 1184

low SEVERITY

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

Source File

- Retrogression.sol

```
1183 */
1184 _mint(owner(), 1000000000 * (10**18));
1185 }
1186
1187 receive() external payable {
1188
```



LINE 1184

low SEVERITY

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

Source File

- Retrogression.sol

```
1183 */
1184 _mint(owner(), 1000000000 * (10**18));
1185 }
1186
1187 receive() external payable {
1188
```



LINE 1192

low SEVERITY

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

Source File

- Retrogression.sol

```
function updateSwapAmount(uint256 amount) public onlyOwner {
   swapTokensAtAmount = amount * (10**18);
   emit UpdateSwapAmount(amount, swapTokensAtAmount);
   }
   }
   1196
```



LINE 1192

low SEVERITY

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

Source File

- Retrogression.sol

```
function updateSwapAmount(uint256 amount) public onlyOwner {
   swapTokensAtAmount = amount * (10**18);
   swapTokensAtAmount = amount * (10**18);
   emit UpdateSwapAmount(amount, swapTokensAtAmount);
   }
   }
   1196
```



LINE 1287

low SEVERITY

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

Source File

- Retrogression.sol

```
1286    uint256    contractBalanceRecipient = balanceOf(to);
1287    require(contractBalanceRecipient + amount <= _maxWallet, "Exceeds maximum wallet
token amount.");
1288    }
1289
1290    if(amount == 0) {
1291</pre>
```



LINE 1487

low SEVERITY

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

Source File

- Retrogression.sol

```
1486    require(newMaxWallet >= 5000000, "Cannot lower max wallet below .5% of total
supply");
1487    _maxWallet = newMaxWallet * (10**18);
1488
1489    emit UpdateMaxWallet(newMaxWallet, _maxWallet);
1490    }
1491
```



LINE 1487

low SEVERITY

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

Source File

- Retrogression.sol

```
1486 require(newMaxWallet >= 5000000, "Cannot lower max wallet below .5% of total
supply");
1487 _maxWallet = newMaxWallet * (10**18);
1488
1489 emit UpdateMaxWallet(newMaxWallet, _maxWallet);
1490 }
1491
```



LINE 1495

low SEVERITY

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

Source File

- Retrogression.sol

```
1494 require(newMaxSell >= 2500000, "Cannot lower max sell below .25% of total
supply");
1495 _maxBuy = newMaxBuy * (10**18);
1496 _maxSell = newMaxSell * (10**18);
1497
1498 emit UpdateMaxBuySell(newMaxBuy, _maxBuy, newMaxSell, _maxSell);
1499
```



LINE 1495

low SEVERITY

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

Source File

- Retrogression.sol

```
1494 require(newMaxSell >= 2500000, "Cannot lower max sell below .25% of total
supply");
1495 _maxBuy = newMaxBuy * (10**18);
1496 _maxSell = newMaxSell * (10**18);
1497
1498 emit UpdateMaxBuySell(newMaxBuy, _maxBuy, newMaxSell, _maxSell);
1499
```



LINE 1496

low SEVERITY

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

Source File

- Retrogression.sol

```
1495    _maxBuy = newMaxBuy * (10**18);
1496    _maxSell = newMaxSell * (10**18);
1497
1498    emit UpdateMaxBuySell(newMaxBuy, _maxBuy, newMaxSell, _maxSell);
1499    }
1500
```



LINE 1496

low SEVERITY

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

Source File

- Retrogression.sol

```
1495   _maxBuy = newMaxBuy * (10**18);
1496   _maxSell = newMaxSell * (10**18);
1497
1498   emit UpdateMaxBuySell(newMaxBuy, _maxBuy, newMaxSell, _maxSell);
1499  }
1500
```



LINE 1529

low SEVERITY

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

Source File

- Retrogression.sol



LINE 1529

low SEVERITY

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

Source File

- Retrogression.sol



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1402

low SEVERITY

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

Source File

- Retrogression.sol

```
1401 address[] memory path = new address[](2);
1402 path[0] = address(this);
1403 path[1] = uniswapV2Router.WETH();
1404
1405 _approve(address(this), address(uniswapV2Router), tokenAmount);
1406
```



SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 1403

low SEVERITY

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

Source File

- Retrogression.sol

```
1402 path[0] = address(this);
1403 path[1] = uniswapV2Router.WETH();
1404
1405 _approve(address(this), address(uniswapV2Router), tokenAmount);
1406
1407
```



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