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SMART CONTRACT

Security Audit Report

Customer: iBG Finance

Website: https://ibg.finance

Platform: Binance Smart Chain

Language: Solidity

Date: August 19th, 2021

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Introduction

EtherAuthority was contracted by the iBG Finance team to perform the Security audit of the iBG Token and Farming smart contracts code. The audit has been performed using manual analysis as well as using automated software tools. This report presents all the findings regarding the audit performed on August 19th, 2021.

The purpose of this audit was to address the following:

- Ensure that all claimed functions exist and function correctly.
- Identify any security vulnerabilities that may be present in the smart contract.

Project Background

iBG is a Decentralized Finance (Defi) Wealth management platform designed to bring simplicity to users interested in entering the cryptocurrency and the Defi market.

Audit scope

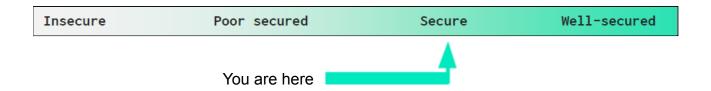
Name	Code Review and Security Analysis Report for iBG Token Smart Contracts		
Platform	BSC / Solidity		
File 1	IBGMasterChef.sol		
Smart Contract Online Code 1	https://bscscan.com/address/0x77E81CBDC4dCc54518 9183FcbC73232468C60bfe#code		
File 1 MD5 Hash	EAB4E84690A48F3C5D635D94F452C61B		
File 2	IBGToken.sol		
Smart Contract Online Code 2	https://bscscan.com/address/0x5c46c55A699A6359E45 1B2c99344138420c87261#code		
File 2 MD5 Hash	CDAF40636329F5DB02E1492C845E6CD1		
Audit Date	August 19th, 2021		

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
File 1: IBGMasterChef.sol	YES, This is valid.
Maximum Rewards: 9,954,546	
Maximum Fee: 5%	
IBG per Block: 0.7	
File 2: IBGToken.sol	YES, This is valid.
Name: IBG Token	
Symbol: iBG	
Decimals: 18	
 Maximum Supply: 45,000,000 	
Token Minter: IBGMasterChef	

Audit Summary

According to the standard audit assessment, Customer's solidity smart contracts are "Secured". These contracts also have owner functions (described in the centralization section below), which does not make everything 100% decentralized. Thus, the owner must execute those smart contract functions as per the business plan.



We used various tools like MythX, Slither and Remix IDE. At the same time this finding is based on critical analysis of the manual audit.

All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Audit overview section. General overview is presented in AS-IS section and all identified issues can be found in the Audit overview section.

We found 0 critical, 0 high, 0 medium and 2 low and some very low level issues.

Investors Advice: Technical audit of the smart contract does not guarantee the ethical nature of the project. Any owner controlled functions should be executed by the owner with responsibility. All investors/users are advised to do their due diligence before investing in the project.

Technical Quick Stats

Main Category	Subcategory	Result
Contract	Solidity version not specified	Passed
Programming	Solidity version too old	Moderated
	Integer overflow/underflow	Passed
	Function input parameters lack of check	Moderated
	Function input parameters check bypass	Passed
	Function access control lacks management	Passed
	Critical operation lacks event log	Moderated
	Human/contract checks bypass	Passed
	Random number generation/use vulnerability	Passed
	Fallback function misuse	Passed
	Race condition	Passed
	Logical vulnerability	Passed
	Features claimed	Passed
	Other programming issues	Passed
Code	Function visibility not explicitly declared	Passed
Specification	Var. storage location not explicitly declared	Passed
	Use keywords/functions to be deprecated	Moderated
	Other code specification issues	Moderated
Gas Optimization	"Out of Gas" Issue	Passed
	High consumption 'for/while' loop	Moderated
	High consumption 'storage' storage	Passed
	Assert() misuse	Passed
Business Risk	The maximum limit for mintage not set	Passed
	"Short Address" Attack	Passed
	"Double Spend" Attack	Passed

Overall Audit Result: PASSED

Code Quality

These audit scope have 2 smart contracts. These smart contracts also contain Libraries,

Smart contracts inherits and Interfaces. These are compact and well written contracts.

The libraries in the iBG contracts are part of its logical algorithm. A library is a different

type of smart contract that contains reusable code. Once deployed on the blockchain (only

once), it is assigned a specific address and its properties / methods can be reused many

times by other contracts in the iBG contracts.

The team has not provided scenario and unit test scripts, which would have helped to

determine the integrity of the code in an automated way.

Some code parts are not well commented on smart contracts.

Documentation

We were given a iBG Token and masterChef smart contracts code in the form of a

BscScan web link. The hashes of that code are mentioned above in the table.

As mentioned above, some code parts are **not well** commented. So it is difficult to quickly

understand the programming flow as well as complex code logic. Comments are very

helpful in understanding the overall architecture of the protocol.

Another source of information was its official website https://ibg.finance/ which provided

rich information about the project architecture and tokenomics.

Use of Dependencies

As per our observation, the libraries are used in this smart contract infrastructure that are

based on well known industry standard open source projects. And their core code blocks

are written well.

Apart from libraries, its functions are used in external smart contract calls.

AS-IS overview

IBGMasterChef.sol

(1) Interface

(a) IBEP20

(2) Inherited contracts

- (a) Ownable
- (b) IBGToken

(3) Usages

- (a) using SafeMath for uint256;
- (b) using SafeBEP20 for IBEP20;

(4) Struct

- (a) UserInfo
- (b) PoolInfo

(5) Events

- (a) event Deposit(address indexed user, uint256 indexed pid, uint256 amount);
- (b) event Withdraw(address indexed user, uint256 indexed pid, uint256 amount);
- (c) event EmergencyWithdraw(address indexed user, uint256 indexed pid, uint256 amount);

(6) Functions

SI.	Functions	Type	Observation	Conclusion
1	constructor	read	Passed	No Issue
2	poolLength	external	Passed	No Issue
3	add	write	Function input parameters	Refer audit
			lack of check	finding section
4	set	write	Function input parameters	Refer audit
			lack of check	finding section
5	getMultiplier	write	Passed	No Issue
6	pendingIBG	external	Function input parameters	Refer audit
			lack of check	finding section
7	massUpdatePools	write	Infinite loops possibility at	Refer audit
			multiple places	finding section

8	updatePool	write	Passed	No Issue
9	deposit	write	Function input parameters Refer audit	
			lack of check	finding section
10	withdraw	write	Function input parameters	Refer audit
			lack of check	finding section
11	emergencyWithdraw	write	Passed	No Issue
12	safelBGTransfer	internal	Passed	No Issue
13	dev	write	Function input parameters	Refer audit
			lack of check	finding section
14	setFeeAddress	write	Function input parameters Refer audit	
			lack of check	finding section
15	updateEmissionRate	write	Function input parameters	Refer audit
			lack of check	finding section
16	owner	read	Passed	No Issue
17	onlyOwner	modifier	Passed	No Issue
18	renounceOwnership	write	access only Owner	No Issue
19	transferOwnership	write	access only Owner	No Issue
20	_transferOwnership	internal	Passed	No Issue

IBGToken.sol

(1) Interface

(a) IBEP20

(2) Inherited contracts

(a) BEP20

(3) Struct

(a) Checkpoint;

(4) Events

- (a) event DelegateChanged(address indexed delegator, address indexed fromDelegate, address indexed toDelegate);
- (b) event DelegateVotesChanged(address indexed delegate, uint previousBalance, uint newBalance);

(5) Functions

SI.	Functions	Туре	Observation	Conclusion
1	mint	write	access only Minter	No Issue
2	burn	write	Passed	No Issue
3	delegates	external	Passed	No Issue
4	delegate	external	Passed	No Issue
5	delegateBySig	external	Passed	No Issue
6	getCurrentVotes	external	Passed	No Issue
7	getPriorVotes	external	Infinite loop	Refer audit finding
				section
8	_delegate	internal	Passed	No Issue
9	moveDelegates	internal	Passed	No Issue
10	_writeCheckpoint	internal	Passed	No Issue
11	safe32	internal	Passed	No Issue
12	getChainId	internal	Passed	No Issue
13	onlyMinter	modifier	Passed	No Issue
14	addOrRemoveMinter	write	access only Owner	No Issue
15	getOwner	external	Passed	No Issue
16	name	read	Passed	No Issue
17	decimals	read	Passed	No Issue
18	symbol	read	Passed	No Issue
19	totalSupply	read	Passed	No Issue
20	balanceOf	read	Passed	No Issue
21	transfer	write	Passed	No Issue
22	allowance	write	Passed	No Issue
23	approve	write	Passed	No Issue
24	transferFrom	write	Passed	No Issue
25	increaseAllowance	write	Passed	No Issue
26	decreaseAllowance	write	Passed	No Issue
27	transfer	internal	Passed	No Issue
28	_mint	internal	Passed	No Issue
29	_burn	internal	Passed	No Issue
30	_approve	internal	Passed	No Issue
31	_burnFrom	internal	Passed	No Issue

Severity Definitions

Risk Level	Description		
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to token loss etc.		
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial		
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose		
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution		
Lowest / Code Style / Best Practice	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.		

Audit Findings

IBGMasterChef.sol

Critical

No Critical severity vulnerabilities were found.

High

No High severity vulnerabilities were found.

Medium

No Medium severity vulnerabilities were found.

Low

(1) Infinite loops possibility at multiple places:

```
// Update reward variables for all pools. Be careful of gas spending!
function massUpdatePools() public {
    uint256 length = poolInfo.length;
    for (uint256 pid = 0; pid < length; ++pid) {
        updatePool(pid);
    }
}</pre>
```

There is a function massUpdatePools(), in the smart contracts, where the poolInfo.length variable is used directly in the loop. It is recommended to put some kind of limits.

Resolution: In practical scenarios, there would not be very many pools, so it does not create an issue. But it is best practice to put some limits on the number of pools.

Status: acknowledged

Very Low / Discussion / Best practices:

(1) Use the latest solidity version:

```
pragma solidity 0.6.12;
```

Using the latest solidity will prevent any compiler-level bugs.

Resolution: Please use 0.8.7 which is the latest version.

Status: acknowledged

(2) Make variables constant:

These variable values MAX_REWARDS, MAX_FEE It will be unchanged. So, please make it constant. It will save some gas.

Resolution: Declare those variables as constant. Just put a constant keyword. And define constants in the constructor.

(3) Function input parameters lack of check:

```
// Update dev address by the previous dev.
function dev(address _devaddr) public {
    require(msg.sender == devaddr, 'dev: wut?');
    devaddr = _devaddr;
}

function setFeeAddress(address _feeAddress) public {
    require(msg.sender == feeAddress, 'setFeeAddress: FORBIDDEN');
    feeAddress = _feeAddress;
}

//Pancake has to add hidden dummy pools inorder to alter the emission,
//here we make it simple and transparent to all.
function updateEmissionRate(uint256 _ibgPerBlock) public onlyOwner {
    massUpdatePools();
    ibgPerBlock = _ibgPerBlock;
}
```

Variable validation is not performed in some functions.

Resolution: There should be some validations to check the variable is not empty or greater than 0:

- dev() _devaddr variable is not empty and > 0
- setFeeAddress() feeAddress variable is not empty and > 0
- updateEmissionRate() ibgPerBlock variable is not empty and > 0
- safelBGTransfer() _amount variable is not empty and > 0
- safelBGTransfer() to variable is not checked address(0)
- withdraw() pid variable is not empty and > 0
- withdraw() _amount variable is not empty and > 0
- deposit() pid variable is not empty and > 0
- pendingIBG() user variable is not checked address(0)
- set() allocPoint variable is not empty and > 0
- set() depositFeeBP variable is not empty and > 0
- add() lpToken variable is not checked address(0)
- add() depositFeeBP variable is not empty and > 0

IBGToken.sol

Critical

No Critical severity vulnerabilities were found.

High

No High severity vulnerabilities were found.

Medium

No Medium severity vulnerabilities were found.

Low

(1) Infinite loop:

```
function getPriorVotes(address account, uint blockNumber)
   external
   view
   returns (uint256)
   require(blockNumber < block.number, "IBG::getPriorVotes: not yet determined");
   uint32 nCheckpoints = numCheckpoints[account];
   if (nCheckpoints == 0) {
       return 0;
   // First check most recent balance
   if (checkpoints[account][nCheckpoints - 1].fromBlock <= blockNumber) {
       return checkpoints[account][nCheckpoints - 1].votes;
   // Next check implicit zero balance
   if (checkpoints[account][0].fromBlock > blockNumber) {
       return 0;
   uint32 lower = 0;
   uint32 upper = nCheckpoints - 1;
   while (upper > lower) {
       uint32 center = upper - (upper - lower) / 2; // ceil, avoiding overflow
       Checkpoint memory cp = checkpoints[account][center];
       if (cp.fromBlock == blockNumber) {
           return cp.votes;
```

In the getPriorVotes function, if the upper value is too high than lower, then it will consume a lot of gas. It may possibly hit the block gas limit.

Resolution: nCheckpoints should be kept limited, so it does not execute a lot of code blocks.

Very Low / Discussion / Best practices:

(1) Use the latest solidity version:

```
pragma solidity 0.6.12;
```

Using the latest solidity will prevent any compiler-level bugs.

Resolution: Please use 0.8.7 which is the latest version.

Status: acknowledged

(2) Warning: SPDX license identifier:

```
pragma solidity 0.6.12;
```

IBGToken.sol: Warning: SPDX license identifier not provided in source file.

Resolution: Add SPDX-License-Identifier.

Status: acknowledged

(3) Use keywords / functions to be deprecated:

Documentation tags on non-public state variables will be disallowed in 0.7.0.

Resolution: You will need to use the @dev tag explicitly.

/// @notice A record of each accounts delegate

(4) Make variables constant:

```
uint256 public MAX_SUPPLY = 45000000*1e18;
```

These variable values: MAX_SUPPLY. It will be unchanged. So, please make it constant. It will save some gas.

Resolution: Declare those variables as constant. Just put a constant keyword. And define constants in the constructor.

Status: acknowledged

Centralization

These smart contracts have some functions which can be executed by Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble. Following are Admin functions:

- add: The IBGMasterChef Owner can add a new pool.
- set: The IBGMasterChef Owner can update the given pool's IBG allocation point and deposit fee.
- updateEmissionRate: The IBGMasterChef Owner can update the emission rate.
- mint: The Minter in IBGToken can mint new tokens, capped at max supply. This
 minter is an IBGMasterChef contract.
- addOrRemoveMinter: The IBGToken owner can add or remove minter for the IBG tokens.
- transferOwnership: Both contract owners can transfer ownership to any other wallet
- renounceOwnership: Both contract owners can give up the ownership.

Conclusion

We were given a contract code. And we have used all possible tests based on given

objects as files. We observed some issues, but they are not critical. So, it's good to go to

production.

Since possible test cases can be unlimited for such smart contracts protocol, we provide

no such guarantee of future outcomes. We have used all the latest static tools and manual

observations to cover maximum possible test cases to scan everything.

Smart contracts within the scope were manually reviewed and analyzed with static

analysis tools. Smart Contract's high level description of functionality was presented in

As-is overview section of the report.

Audit report contains all found security vulnerabilities and other issues in the reviewed

code.

Security state of the reviewed contract, based on standard audit procedure scope, is

"Secured".

Our Methodology

We like to work with a transparent process and make our reviews a collaborative effort.

The goals of our security audits are to improve the quality of systems we review and aim

for sufficient remediation to help protect users. The following is the methodology we use in

our security audit process.

Manual Code Review:

In manually reviewing all of the code, we look for any potential issues with code logic, error

handling, protocol and header parsing, cryptographic errors, and random number

generators. We also watch for areas where more defensive programming could reduce the

risk of future mistakes and speed up future audits. Although our primary focus is on the

in-scope code, we examine dependency code and behavior when it is relevant to a

particular line of investigation.

Vulnerability Analysis:

Our audit techniques included manual code analysis, user interface interaction, and

whitebox penetration testing. We look at the project's web site to get a high level

understanding of what functionality the software under review provides. We then meet with

the developers to gain an appreciation of their vision of the software. We install and use

the relevant software, exploring the user interactions and roles. While we do this, we

brainstorm threat models and attack surfaces. We read design documentation, review

other audit results, search for similar projects, examine source code dependencies, skim

open issue tickets, and generally investigate details other than the implementation.

Documenting Results:

We follow a conservative, transparent process for analyzing potential security vulnerabilities and seeing them through successful remediation. Whenever a potential issue is discovered, we immediately create an Issue entry for it in this document, even though we have not yet verified the feasibility and impact of the issue. This process is conservative because we document our suspicions early even if they are later shown to not represent exploitable vulnerabilities. We generally follow a process of first documenting the suspicion with unresolved questions, then confirming the issue through code analysis, live experimentation, or automated tests. Code analysis is the most tentative, and we strive to provide test code, log captures, or screenshots demonstrating our confirmation. After this we analyze the feasibility of an attack in a live system.

Suggested Solutions:

We search for immediate mitigations that live deployments can take, and finally we suggest the requirements for remediation engineering for future releases. The mitigation and remediation recommendations should be scrutinized by the developers and deployment engineers, and successful mitigation and remediation is an ongoing collaborative process after we deliver our report, and before the details are made public.

Disclaimers

EtherAuthority.io Disclaimer

EtherAuthority team has analyzed this smart contract in accordance with the best industry practices at the date of this report, in relation to: cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report, (Source Code); the Source Code compilation, deployment and functionality (performing the intended functions).

Due to the fact that the total number of test cases are unlimited, the audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bugfree status or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only. We also suggest conducting a bug bounty program to confirm the high level of security of this smart contract.

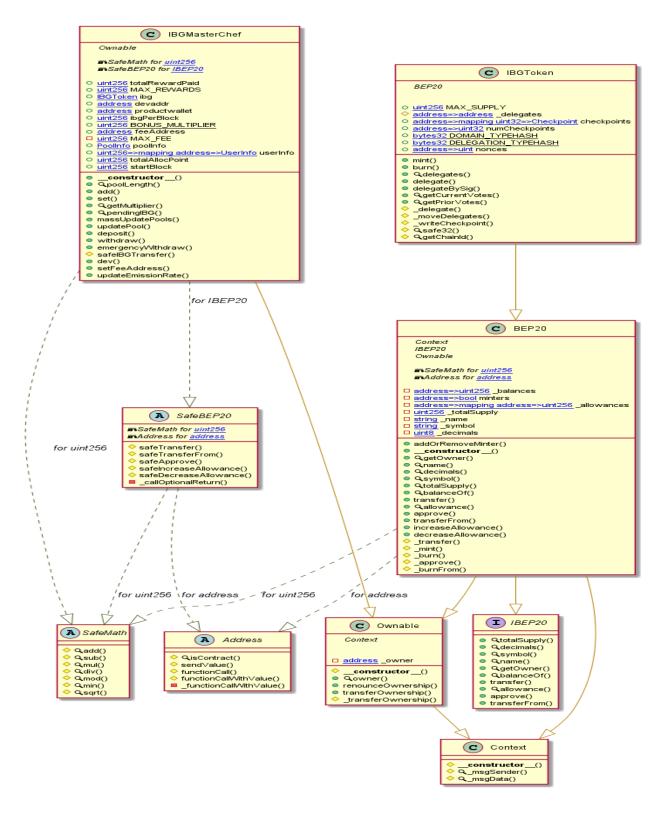
Technical Disclaimer

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have their own vulnerabilities that can lead to hacks. Thus, the audit can't guarantee explicit security of the audited smart contracts.

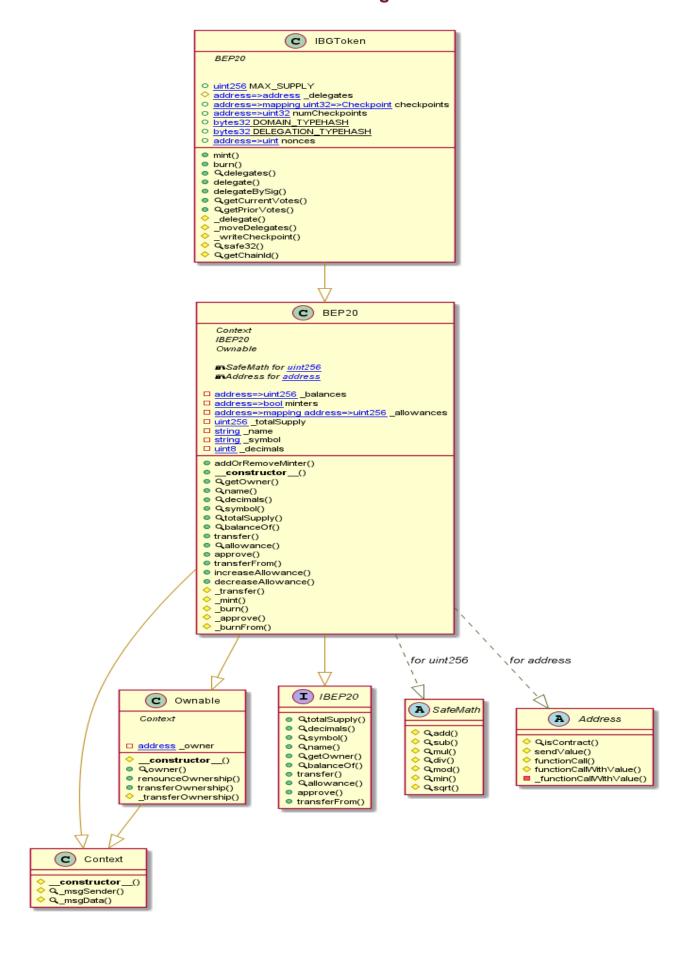
Appendix

Code Flow Diagram - iBG Token

IBGMasterChef Diagram



IBGToken Diagram



Slither Results Log

Slither log >> IBGMasterChef.sol

```
INFO:Detectors:
IBGMasterChef.safeIBGTransfer(address,uint256) (IBGMasterChef.sol#1428-1438) ignores return value by ibg.transfer(_to,_amount) (IBGMaster
           horf.sol#1434)
keference: https://github.com/crytic/slither/wiki/Detector-Documentation#unchecked-transfer
Cher. Sol. 1834.

INFO:Detectors:

Reentrancy in IBGMasterChef.sol#1829.

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1276-1297):

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1276-1297):

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1280)

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1280)

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1280)

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1376)

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1376)

INFO:Detectors:

Reentrancy in IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1342)

INFO:Detectors:

INFO:Detectors:

Reentrancy in IBGMasterChef.sol#1372)

INFO:Detectors:

INFO:Detectors:

INFO:Detectors:

INFO:Detectors:

Reentrancy in IBGMasterChef.sol#1372)

INFO
       - ubg.transfer(_to__amount) (IBGMasterChef.sol#1434)
- safeIBGTransfer(msg.sender.pending) (IBGMasterChef.sol#1376)
- ibg.mint(_to__amount) (IBGMasterChef.sol#1432)
- ibg.transfer(_to_amount) (IBGMasterChef.sol#1434)
State variables written after the call(s):
- safeIBGTransfer(msg.sender.pending) (IBGMasterChef.sol#1376)
- totalRewardPaid = totalRewardPaid.add(_amount) (IBGMasterChef.sol#1436)
Reentrancy in IBGMasterChef.deposit(uint256,uint256) (IBGMasterChef.sol#1369-1395):
External calls:
- updatePool(_pid) (IBGMasterChef.sol#1372)
- ibg.mint(_to__amount) (IBGMasterChef.sol#1434)
- safeIBGTransfer(_msg.sender.pending) (IBGMasterChef.sol#1434)
- safeIBGTransfer(_to_amount) (IBGMasterChef.sol#1434)
- safeIBGTransfer(_msg.sender.pending) (IBGMasterChef.sol#1434)
- pool.lpToken.safeTransfer(_foeAddress(_msg.sender).address(_ths)_, amount) (IBGMasterChef.sol#1434)
- pool.lpToken.safeTransfer(_foeAddress(_msg.sender).address(_ths)_, amount) (IBGMasterChef.sol#1387)
State variables written after the call(_s):
- user.amount = user.amount.add(_amount).sub(depositFee) (IBGMasterChef.sol#1388)
Reentrancy in IBGMasterChef.deposit(uint256,uint256) (IBGMasterChef.sol#1369-1395):
External calls:
- updatePool(_pid) (IBGMasterChef.sol#1372)
- ibg.mint(_to__amount) (IBGMasterChef.sol#1432)
- jbg.transfer(_to__amount) (IBGMasterChef.sol#1369)
- sellGTransfer(_msg.sender.pending) (IBGMasterChef.sol#1376)
- ibg.mint(_to__amount) (IBGMasterChef.sol#1432)
- ibg.transfer(_to__amount) (IBGMasterChef.sol#1434)
- pool.lpToken.safeTransferFrom(address(_msg.sender),address(_ths)_,amount) (IBGMasterChef.sol#1381)

State variables written after the call(_s):
- tota.munt(_tota._amount) (IBGMasterChef.sol#1432)
- ibg.transfer(_to__amount) (IBGMasterChef.sol#1432)
- ibg.transfer(_to__amount) (IBGMasterChef.sol#1434)
- pool.lpToken.safeTransferGastarsferGastars.gunt256) (IBGMasterChef.sol#1428-1438):
External calls:
- tota.RewardPaid = totalRewardPaid.add(_amount) (IBGMasterChef.sol#1360)
- tota.RewardPaid = totalRewardPaid.add(_amount)
- tot
   External calls:
- massUpdatePools() (IBGMasterChef.sol#1308)
- ibg.mint(_to,_amount) (IBGMasterChef.sol#1432)
- ibg.transfer(_to,_amount) (IBGMasterChef.sol#1434)

State variables written after the call(s):
- poolInfo[_pid].allocPoint = _allocPoint (IBGMasterChef.sol#1311)
- poolInfo[_pid].depositFeeBP = _depositFeeBP (IBGMasterChef.sol#1312)
- totalAllocPoint = totalAllocPoint.sub(poolInfo[_pid].allocPoint).add(_allocPoint) (IBGMasterChef.sol#1310)

Reentrancy in IBGMasterChef.updateEmissionRate(uint256) (IBGMasterChef.sol#1452-1455):
External calls:
- massUpdatePools() (IBGMasterChef.sol#1453)
- ibg.mint(_to,_amount) (IBGMasterChef.sol#1432)
- ibg.transfer(_to,_amount) (IBGMasterChef.sol#1434)

State variables written after the call(s):
- ibgPerBlock = _lbgPerBlock (IBGMasterChef.sol#1454)

Reentrancy in IBGMasterChef.updatePool(uint256) (IBGMasterChef.sol#1343-1361):
External calls:
```

```
External calls:
- massUpdatePools() (IBGMasterChef.sol#1453)
- bunint(_to, amount) (IBGMasterChef.sol#1432)
- bunint(_to, amount) (IBGMasterChef.sol#1434)
State variables written after the call(s):
- bupPerBlock = .bupPerBlock (IBGMasterChef.sol#1454)
Stentrancy in IBGMasterChef.updatePool(uint256) (IBGMasterChef.sol#1343-1361):
External calls:
- safeIBGTransfer(devaddr, bupReward.div(10)) (IBGMasterChef.sol#13456)
- bup.mint(_to, amount) (IBGMasterChef.sol#1482)
- bup.transfer(_to, amount) (IBGMasterChef.sol#1482)
- safeIBGTransfer(address(this), bupReward) (IBGMasterChef.sol#1357)
- bup.mint(_to, amount) (IBGMasterChef.sol#1482)
- bup.transfer(_to, amount) (IBGMasterChef.sol#1482)
- pool.lastRewardBlock = block.number (IBGMasterChef.sol#1357)
- pool.lastRewardBlock = block.number (IBGMasterChef.sol#1357)
- safeIBGTransfer(address(this), bupReward) (IBGMasterChef.sol#1357)
- totalRewardPaid = totalRewardPaid.add(_amount) (IBGMasterChef.sol#1436)

Reentrancy in IBGMasterChef.withdraw(uint256,uint256) (IBGMasterChef.sol#1398-1413):
- tupdatePool(_pid) (IBGMasterChef.sol#1402)
- bup.mint(_to__amount) (IBGMasterChef.sol#1432)
- bup.transfer(_to__amount) (IBGMasterChef.sol#1434)
- safeIBGTransfer(mag.sender.pending) (IBGMasterChef.sol#1434)

State variables written after the call(s):
- safeIBGTransfer(mag.sender.pending) (IBGMasterChef.sol#1434)

State variables written after the call(s):
- safeIBGTransfer(mag.sender.pending) (IBGMasterChef.sol#1435)
- totalRewardPaid = totalRewardPaid.add(_amount) (IBGMasterChef.sol#1436)
- user.amount = user.amount) (IBGMasterChef.sol#1432)
- bup.transfer(_to__amount) (IBGMasterChef.sol#1432)
- bup.transfer(_to__amount) (IBGMasterChef.sol#1432)
- bup.transfer(_to__amount) (IBGMasterChef.sol#1432)
- bup.transfer(_to__amount) (IBGMasterChef.sol#1432)
- bup.transfer(_to__amo
                                               - safeIBGTransfer(msg.sender,pending) (IBGMasterChef.sol#1405)
- ibg.mint(_to__amount) (IBGMasterChef.sol#1432)
- pool.lpToken.safeTransfer(address(msg.sender),_amount) (IBGMasterChef.sol#1409)
State variables written after the call(s):
- user.rewardDebt = user.amount.mul(pool.accIBGPerShare).div(1e12) (IBGMasterChef.sol#1411)
ie: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-1
   Reference: https://github.com/crytic/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither/wlki/petector.com/slither

    ibg.mint(_to,_amount) (IBGMasterChef.sol#1432)
    ibg.transfer(_to,_amount) (IBGMasterChef.sol#1434)
    pool.lpToken.safeTransferFrom(address(msg.sender),address(this),_amount) (IBGMasterChef.sol#1381)
    pool.lpToken.safeTransfer(feeAddress,depositFee) (IBGMasterChef.sol#1387)
    Event emitted after the call(s):
    Deposit(msg.sender,_pid,_amount) (IBGMasterChef.sol#1394)
    ncy in IBGMasterChef.emergencyWithdraw(uint256) (IBGMasterChef.sol#1417-1425):

     lBGToken.delegateBySig(address,uint256,uint256,uint8,bytes32,bytes32) (IBGMasterChef.sol#943-984) uses timestamp for comparisons
                                               Dangerous comparisons:
- require(bool,string)(now <= expiry,IBG::delegateBySig: signature expired) (IBGMasterChef.sol#982)
```

```
equire(bool,string)(now <= expiry,IBG::delegateBySig: signature expired) (IBGMasterChef.sol#982)
https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp
INFO:Detectors:
INFO:Detectors:
 BEP20.onlyMinter() (IBGMasterChef.sol#586-589) compares to a boolean constant:
-require(bool,string)(minters[_msgSender()] == true,Minters: caller is not the minter) (IBGMasterChef.sol#587)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#boolean-equality
 INFO:Detectors:
    INFO:Detectors:
Address functionCall(address,bytes) (IBGMasterChef.sol#462-464) is never used and should be removed Address functionCallWithValue(address,bytes,uint256) (IBGMasterChef.sol#491-497) is never used and should be removed Address. functionCallWithValue(address,bytes,uint256) (IBGMasterChef.sol#365-513) is never used and should be removed Address. sendValue(address,uint256) (IBGMasterChef.sol#366-442) is never used and should be removed BEP20._burnFrom(address,uint256) (IBGMasterChef.sol#366-857) is never used and should be removed Context._msgData() (IBGMasterChef.sol#24-27) is never used and should be removed SafeBEP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#1148-1162) is never used and should be removed SafeBEP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#1148-1162) is never used and should be removed SafeBEP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#1148-1162) is never used and should be removed SafeBEP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#1148-1171) is never used and should be removed SafeBEP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#3164-1171) is never used and should be removed SafeBeP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#366-368) is never used and should be removed SafeBeP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#314-343) is never used and should be removed SafeBeP20.safeApprove(IBEP20,address,uint256) (IBGMasterChef.sol#314-343) is never used and should be removed SafeBeP20.safeApprove(IBEP20,address,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,ui
  INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (IBGMasterChef.sol#436-442):
          ference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
  INFO:Detectors:
  INFO.Decectors.
Low level call in Address.sendValue(address,uint256) (IBGMasterChef.sol#436-442):
- (success) = recipient.call{value: amount}() (IBGMasterChef.sol#440)
Low level call in Address._functionCallWithValue(address,bytes,uint256,string) (IBGMasterChef.sol#515-541):
- (success,returndata) = target.call{value: weiValue}(data) (IBGMasterChef.sol#524)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
Reference: https://github.com/cryttc/sltther/wiki/Detector-Documentation#low-level-calls
INFO:Detectors:
Parameter BBF20.addorRemoveMinter(address,bool)._addr (IBGMasterChef.sol#592) is not in mixedCase
Parameter IBGToken.mint(address,uint256)._to (IBGMasterChef.sol#865) is not in mixedCase
Parameter IBGToken.mint(address,uint256)._mount (IBGMasterChef.sol#365) is not in mixedCase
Variable IBGToken.MAX_SUPPLY (IBGMasterChef.sol#863) is not in mixedCase
Variable IBGToken.delegates (IBGMasterChef.sol#863) is not in mixedCase
Parameter IBGMasterChef.add(uint256,IBEP20,uint16,bool)._allocPoint (IBGMasterChef.sol#1277) is not in mixedCase
Parameter IBGMasterChef.add(uint256,IBEP20,uint16,bool)._dplopensidesep (IBGMasterChef.sol#1279) is not in mixedCase
Parameter IBGMasterChef.add(uint256,IBEP20,uint16,bool)._dpositreeDP (IBGMasterChef.sol#1279) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256,uint16,bool)._dpositreeDP (IBGMasterChef.sol#1380) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256,uint16,bool)._allocPoint (IBGMasterChef.sol#1380) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256,uint16,bool)._allocPoint (IBGMasterChef.sol#1380) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256,uint16,bool)._depositFeeDP (IBGMasterChef.sol#1380) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256,uint16,bool)._depositFeeDP (IBGMasterChef.sol#1380) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256)._pid (IBGMasterChef.sol#1316) is not in mixedCase
Parameter IBGMasterChef.set(uint256,uint256,uint256)._pid (IBGMasterChef.sol#1316) is not in mixedCase
Parameter IBGMasterChef.getMultiplier(uint256,uint256)._pid (IBGMasterChef.sol#1321) is not in mixedCase
Parameter IBGMasterChef.getMultiplier(uint256,uint256)._pid (IBGMasterChef.sol#1321) is not in mixedCase
Parameter IBGMasterChef.eposit(uint256,uint256)._pid (IBGMasterChef.sol#1343) is not in mixedCase
Parameter IBGMasterChef.sol#100,uint256,uint256)._pid (IBGMasterChef.sol#1343) is not in mix
                  iable IBGMasterChef.MAX_FEE (IBGMasterChef.sol#1242) is not in mixedCase
erence: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
  INFO:Detectors:
                o.betecturs.
undant expression "this (IBGMasterChef.sol#25)" inContext (IBGMasterChef.sol#15-28)
erence: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
    INFO:Detectors:
      MRG.Detectors

BGToken.slitherConstructorVariables() (IBGMasterChef.sol#860-1107) uses literals with too many digits:

- MAX_SUPPLY = 45000000 * 1e18 (IBGMasterChef.sol#863)

eference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits
   Reference: https://github.com/crjiii.
INFO:Detectors.
IBGMasterChef.MAX_FEE (IBGMasterChef.sol#1242) should be constant
IBGMasterChef.MAX_REWARDS (IBGMasterChef.sol#1213) should be constant
IBGMasterChef.productwallet (IBGMasterChef.sol#1235) should be constant
IBGToken.MAX_SUPPLY (IBGMasterChef.sol#863) should be constant
IBGToken.MAX_SUPPLY (IBGMasterChef.sol#863) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO-Detectors:
```

```
renounceOwnership() should be declared external:

Ownable.renounceOwnership() (IBGMasterChef.sol#79-82)
transferOwnership(address) should be declared external:

Ownable.transferOwnership(address) (IBGMasterChef.sol#88-90)
addOrRemoveMinter(address,bool) should be declared external:

BEP20.addOrRemoveMinter(address,bool) (IBGMasterChef.sol#592-595)
decimals() should be declared external:

BEP20.decimals() (IBGMasterChef.sol#632-634)
symbol() should be declared external:

BEP20.symbol() (IBGMasterChef.sol#639-641)
transfer(address,uint256) should be declared external:

BEP20.transfer(address,uint256) (IBGMasterChef.sol#665-668)
```

```
transferFrom(address,address,uint256) should be declared external:

- BEP20.transferFrom(address,address,uint256) [IBGMasterChef.sol#727-730)
increaseAllowance(address,uint256) should be declared external:

- BEP20.increaseAllowance(address,uint256) (IBGMasterChef.sol#727-730)
decreaseAllowance(address,uint256) abould be declared external:

- BEP20.decreaseAllowance(address,uint256) (IBGMasterChef.sol#746-753)
mint(address,uint256) should be declared external:

- IBGTOKen.mint(address,uint256) (IBGMasterChef.sol#865-869)
burn(uint256) should be declared external:

- IBGTOKen.burn(uint256) (IBGMasterChef.sol#871-874)
add(uint256,IBEP20,uint16,bool) should be declared external:

- IBGMasterChef.add(uint256,IBEP20,uint16,bool) (IBGMasterChef.sol#1276-1297)
set(uint256,uint16,bool) should be declared external:

- IBGMasterChef.set(uint256,uint256,uint256,uint16,bool) (IBGMasterChef.sol#1300-1313)
withdraw(uut256,uint16,bool) should be declared external:

- IBGMasterChef.set(uint256,uint256,uint256,uint256) (IBGMasterChef.sol#1398-1413)
emergencyWithdraw(uut1255) should be declared external:

- IBGMasterChef.withdraw(uut1256,uint256,uint256) (IBGMasterChef.sol#1417-1425)
dev(address) should be declared external:

- IBGMasterChef.emergencyWithdraw(uut1256) (IBGMasterChef.sol#1441-1444)
setFeeAddress(address) (IBGMasterChef.sol#1441-1444)
setFeeAddress(address) (IBGMasterChef.sol#1446-1449)
updateEmissionRate(uint256) should be declared external:

- IBGMasterChef.ef.exetFeeAddress(address) (IBGMasterChef.sol#1445-1455)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external
INFO:Slither:IBGMasterChef.sol analyzed (9 contracts with 75 detectors), 103 result(s) found
INFO:Slither:Use https://crytic.io/ to get access to additional detectors and Github integration
```

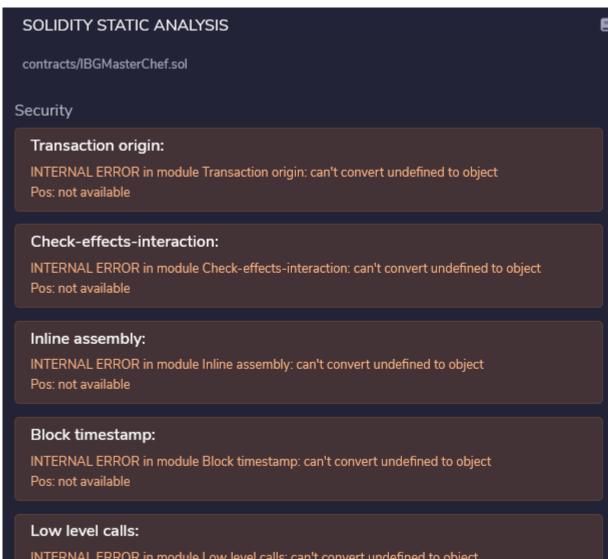
Slither log >> IBGToken.sol

```
Address. functionCallWithValue(address,bytes,uint256,string) (IBGToken.sol#490-516) is never used and should be removed Address.functionCall(address,bytes) (IBGToken.sol#437-439) is never used and should be removed Address.functionCallWithValue(address,bytes,uint256) (IBGToken.sol#467-472) is never used and should be removed Address.functionCallWithValue(address,bytes,uint256) (IBGToken.sol#366-472) is never used and should be removed Address.functionCallWithValue(address,bytes,uint256, ISGToken.sol#366-472) is never used and should be removed Address.scontract(address) (IBGToken.sol#362-939) is never used and should be removed Address.scontract(address) (IBGToken.sol#362-939) is never used and should be removed Address.scontract(address) (IBGToken.sol#362-362) is never used and should be removed Context.msgbata() (IBGToken.sol#262-278) is never used and should be removed SafeMath.div(uint256,uint256) (IBGToken.sol#26-278) is never used and should be removed SafeMath.div(uint256,uint256) (IBGToken.sol#26-278) is never used and should be removed SafeMath.mu(uint256,uint256) (IBGToken.sol#36-318) is never used and should be removed SafeMath.mu(uint256,uint256) (IBGToken.sol#36-318) is never used and should be removed SafeMath.mu(uint256,uint256) (IBGToken.sol#36-318) is never used and should be removed SafeMath.mu(uint256,uint256) (IBGToken.sol#36-379) is never used and should be removed SafeMath.mu(uint256,uint256, IBGToken.sol#36-379) is never used and should be removed SafeMath.mu(uint256,uint256, IBGToken.sol#36-379) is never used and should be removed SafeMath.mu(uint256,uint256, IBGToken.sol#36-379) is never used and should be removed SafeMath.mu(uint256,uint256, IBGToken.sol#36-379) is never used and should be removed SafeMath.mu(uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,uint256,u
```

```
INFO:Detectors:
IBGTOKen.MAX_SUPPLY (IBGToken.sol#838) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Detectors:
- Ownable.renounceOwnership() (IBGToken.sol#54-57)
transferOwnership(address) should be declared external:
- Ownable.transferOwnership(address) (IBGToken.sol#53-65)
addOrRemoveMinter(address,bool) should be declared external:
- BEP20.addOrRemoveMinter(address,bool) (IBGToken.sol#67-570)
decimals() should be declared external:
- BEP20.addorRemoveMinter(address,bool) (IBGToken.sol#567-570)
decimals() should be declared external:
- BEP20.addorsen.sol#614-616)
transfer(address,init) be declared external:
- BEP20.symbol() (IBGToken.sol#614-616)
transfer(address,init) be declared external:
- BEP20.transfer(address,init) be declared external:
- BEP20.transfer(address,init) be declared external:
- BEP20.allowance(address,init) be declared external:
- BEP20.allowance(address,init) (IBGToken.sol#648-650)
approve(address,init) be declared external:
- BEP20.transferForm(address,init) (IBGToken.sol#659-662)
transferForm(address,init) (IBGToken.sol#676-688)
increaseAllowance(address,init) (IBGToken.sol#676-688)
increaseAllowance(address,init) (IBGToken.sol#671-728)
mint(address,init) be declared external:
- BEP20.init) be declared external:
- BEP20.allowance(address,init) be declared external:
- BEP20.init) be declared external:
- BEP20.init) be declared external:
- BEP30.init) be declare
```

Solidity static analysis

IBGMasterChef.sol



INTERNAL ERROR in module Low level calls: can't convert undefined to object Pos: not available

Selfdestruct:

INTERNAL ERROR in module Selfdestruct: can't convert undefined to object Pos: not available

Gas & Economy

This on local calls:

INTERNAL ERROR in module This on local calls: can't convert undefined to object Pos: not available

This is a private and confidential document. No part of this document should be disclosed to third party without prior written permission of EtherAuthority.

Delete dynamic array:

INTERNAL ERROR in module Delete dynamic array: can't convert undefined to object Pos: not available

For loop over dynamic array:

INTERNAL ERROR in module For loop over dynamic array: can't convert undefined to object Pos: not available

Ether transfer in loop:

INTERNAL ERROR in module Ether transfer in loop: can't convert undefined to object Pos: not available

ERC

ERC20:

INTERNAL ERROR in module ERC20: can't convert undefined to object Pos: not available

Miscellaneous

Constant/View/Pure functions:

INTERNAL ERROR in module Constant/View/Pure functions: can't convert undefined to object Pos: not available

Similar variable names:

INTERNAL ERROR in module Similar variable names: can't convert undefined to object Pos: not available

No return:

INTERNAL ERROR in module No return: can't convert undefined to object Pos: not available

Guard conditions:

INTERNAL ERROR in module Guard conditions: can't convert undefined to object Pos: not available

String length:

INTERNAL ERROR in module String length: can't convert undefined to object Pos: not available

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IBGMasterChef.sol

SOLIDITY STATIC ANALYSIS

IBGToken.sol

Security

Transaction origin:

INTERNAL ERROR in module Transaction origin: can't convert undefined to object Pos: not available

Check-effects-interaction:

INTERNAL ERROR in module Check-effects-interaction: can't convert undefined to object Pos: not available

Inline assembly:

INTERNAL ERROR in module Inline assembly: can't convert undefined to object Pos: not available

Block timestamp:

INTERNAL ERROR in module Block timestamp: can't convert undefined to object Pos: not available

Low level calls:

INTERNAL ERROR in module Low level calls: can't convert undefined to object Pos: not available

Selfdestruct:

INTERNAL ERROR in module Selfdestruct: can't convert undefined to object Pos: not available

Gas & Economy

This on local calls:

INTERNAL ERROR in module This on local calls: can't convert undefined to object Pos: not available

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Delete dynamic array:

INTERNAL ERROR in module Delete dynamic array: can't convert undefined to object Pos: not available

For loop over dynamic array:

INTERNAL ERROR in module For loop over dynamic array: can't convert undefined to object Pos: not available

Ether transfer in loop:

INTERNAL ERROR in module Ether transfer in loop: can't convert undefined to object Pos: not available

FRC

ERC20:

INTERNAL ERROR in module ERC20: can't convert undefined to object Pos: not available

Miscellaneous

Constant/View/Pure functions:

INTERNAL ERROR in module Constant/View/Pure functions: can't convert undefined to object Pos: not available

Similar variable names:

INTERNAL ERROR in module Similar variable names: can't convert undefined to object Pos: not available

No return:

INTERNAL ERROR in module No return: can't convert undefined to object Pos: not available

Guard conditions:

INTERNAL ERROR in module Guard conditions: can't convert undefined to object Pos: not available

String length:

INTERNAL ERROR in module String length: can't convert undefined to object Pos: not available

Solhint Linter

IBGMasterChef.sol

```
contracts/IBGMasterChef.sol:1:1: Error: Compiler version 0.6.12 does
not satisfy the r semver requirement
contracts/IBGMasterChef.sol:18:28: Error: Code contains empty blocks
contracts/IBGMasterChef.sol:68:41: Error: Use double quotes for string
contracts/IBGMasterChef.sol:96:41: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:225:25: Error: Use double quotes for string
contracts/IBGMasterChef.sol:241:26: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:284:29: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:302:26: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:342:26: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:437:50: Error: Use double quotes for string
contracts/IBGMasterChef.sol:440:58: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:441:26: Error: Use double quotes for string
contracts/IBGMasterChef.sol:463:43: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:496:59: Error: Use double quotes for string
contracts/IBGMasterChef.sol:511:49: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:521:37: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:587:47: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:710:59: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:750:69: Error: Use double quotes for string
contracts/IBGMasterChef.sol:775:39: Error: Use double quotes for string
contracts/IBGMasterChef.sol:776:42: Error: Use double quotes for string
contracts/IBGMasterChef.sol:778:59: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:793:40: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:812:40: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:814:61: Error: Use double quotes for string
```

```
literals
contracts/IBGMasterChef.sol:837:38: Error: Use double quotes for string
contracts/IBGMasterChef.sol:838:40: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:855:60: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:860:28: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:860:41: Error: Use double quotes for string
literals
contracts/IBGMasterChef.sol:863:20: Error: Variable name must be in
mixedCase
contracts/IBGMasterChef.sol:982:17: Error: Avoid to make time-based
decisions in your business logic
contracts/IBGMasterChef.sol:1104:9: Error: Avoid to use inline
assembly. It is acceptable only in rare cases
contracts/IBGMasterChef.sol:1109:1: Error: Compiler version ^0.6.12
does not satisfy the r semver requirement
contracts/IBGMasterChef.sol:1159:13: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1180:13: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1196:69: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1200:53: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1206:1: Error: Compiler version ^0.6.12
does not satisfy the r semver requirement
contracts/IBGMasterChef.sol:1213:20: Error: Variable name must be in
mixedCase
contracts/IBGMasterChef.sol:1242:21: Error: Variable name must be in
mixedCase
contracts/IBGMasterChef.sol:1282:43: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1306:43: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1401:41: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1436:9: Error: Possible reentrancy
vulnerabilities. Avoid state changes after transfer.
contracts/IBGMasterChef.sol:1442:40: Error: Use double quotes for
string literals
contracts/IBGMasterChef.sol:1447:43: Error: Use double quotes for
string literals
```

IBGToken.sol

```
IBGToken.sol:1:1: Error: Compiler version 0.6.12 does not satisfy the r
semver requirement
IBGToken.sol:18:28: Error: Code contains empty blocks
IBGToken.sol:68:41: Error: Use double quotes for string literals
IBGToken.sol:96:41: Error: Use double quotes for string literals
IBGToken.sol:225:25: Error: Use double quotes for string literals
IBGToken.sol:241:26: Error: Use double quotes for string literals
IBGToken.sol:284:29: Error: Use double quotes for string literals
IBGToken.sol:302:26: Error: Use double quotes for string literals
IBGToken.sol:342:26: Error: Use double quotes for string literals
IBGToken.sol:437:50: Error: Use double quotes for string literals
IBGToken.sol:440:58: Error: Use double quotes for string literals
IBGToken.sol:441:26: Error: Use double quotes for string literals
IBGToken.sol:463:43: Error: Use double quotes for string literals
IBGToken.sol:496:59: Error: Use double quotes for string literals
IBGToken.sol:511:49: Error: Use double quotes for string literals
IBGToken.sol:521:37: Error: Use double quotes for string literals
IBGToken.sol:587:47: Error: Use double quotes for string literals
IBGToken.sol:710:59: Error: Use double quotes for string literals
IBGToken.sol:750:69: Error: Use double quotes for string literals
IBGToken.sol:775:39: Error: Use double quotes for string literals
IBGToken.sol:776:42: Error: Use double quotes for string literals
IBGToken.sol:778:59: Error: Use double quotes for string literals
IBGToken.sol:793:40: Error: Use double quotes for string literals
IBGToken.sol:812:40: Error: Use double quotes for string literals
IBGToken.sol:814:61: Error: Use double quotes for string literals
IBGToken.sol:837:38: Error: Use double quotes for string literals
IBGToken.sol:838:40: Error: Use double quotes for string literals
IBGToken.sol:855:60: Error: Use double quotes for string literals
IBGToken.sol:860:28: Error: Use double quotes for string literals
IBGToken.sol:860:41: Error: Use double quotes for string literals
IBGToken.sol:863:20: Error: Variable name must be in mixedCase
IBGToken.sol:982:17: Error: Avoid to make time-based decisions in your
business logic
IBGToken.sol:1104:9: Error: Avoid to use inline assembly. It is
acceptable only in rare cases
```



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