

Layer2DAO

Smart Contract Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
Layer2DAO	L2DAO	Arbitrum	

Addresses

Contract address	0x2cab3abfc1670d1a452df502e216a66883cdf079
Contract deployer address	0xFd0Bd19e849493F77D8f77eD026520C1368102Bd

Project Website

https://www.layer2dao.org/

Codebase

https://arbiscan.io/address/0x2cab3abfc1670d1a452df502e216a66883cdf079#code



SUMMARY

Layer2DAO is expanding the Ethereum L2 ecosystem and investing in L2 ecosystem projects. The DAO is using its treasury to support high-impact L2 protocols and ecosystem plays, serving as a diversified venture fund for investors seeking exposure to the L2 ecosystem growth. It also provides liquidity, depositing and staking, perpetually reinvesting proceeds into the DAO.

Contract Summary

Documentation Quality

Layer2DAO 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 Layer2DAO 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 47, 336, 336, 347, 347, 347, 380, 388, 423, 424, 428, 429, 429, 430, 445, 455, 455, 458, 458, 458, 1252, 1271, 1293, 1326, 1328, 1349, 1350, 1375, 1377, 1616, 1666, 1670, 1782, 1785, 1786, 1793, 1797, 1851, 1853,
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 11, 66, 310, 356, 402, 472, 708, 814, 877, 904, 982, 1067, 1097, 1455, 1544, 1804 and 1888.
- 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 48, 429, 456, 457, 459, 459, 1594, 1616, 1663, 1670, 1782, 1785 and 1786.
- SWC-120 | It is recommended to use external sources of randomness via oracles on lines 1627, 1640, 1785 and 1788.



CONCLUSION

We have audited the Layer2DAO project released in January 2022 to discover issues and identify potential security vulnerabilities in Layer2DAO 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 Layer2DAO 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, and out-of-bounds array access which the index access expression can cause an exception in case an invalid array index value is used.



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.	PASS
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.	
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.	PASS
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 griefing 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.	
Override control character	SWC-130 character to force RTL text rendering and confuse users as		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.	
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 Jan 29 2022 10:28:36 GMT+0000 (Coordinated Universal Time)		
Finished	Sunday Jan 30 2022 17:44:12 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	L2DAOToken.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	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged



SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
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SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged



A FLOATING PRAGMA IS SET.	low	acknowledged
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OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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LINE 47

low SEVERITY

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

Source File

- L2DAOToken.sol

```
bytes32 computedHash = leaf;
for (uint256 i = 0; i < proof.length; i++) {

bytes32 proofElement = proof[i];

if (computedHash <= proofElement) {

// Hash(current computed hash + current element of the proof)
</pre>
```



LINE 336

low SEVERITY

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

Source File

- L2DAOToken.sol

```
335  // (a + b) / 2 can overflow.
336  return (a & b) + (a ^ b) / 2;
337  }
338
339  /**
340
```



LINE 336

low SEVERITY

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

Source File

- L2DAOToken.sol

```
335  // (a + b) / 2 can overflow.
336  return (a & b) + (a ^ b) / 2;
337  }
338
339  /**
340
```



LINE 347

low SEVERITY

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

Source File

- L2DAOToken.sol

```
346  // (a + b - 1) / b can overflow on addition, so we distribute.
347  return a / b + (a % b == 0 ? 0 : 1);
348  }
349  }
350
351
```



LINE 347

low SEVERITY

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

Source File

- L2DAOToken.sol

```
346  // (a + b - 1) / b can overflow on addition, so we distribute.
347  return a / b + (a % b == 0 ? 0 : 1);
348  }
349  }
350
351
```



LINE 347

low SEVERITY

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

Source File

- L2DAOToken.sol

```
346  // (a + b - 1) / b can overflow on addition, so we distribute.
347  return a / b + (a % b == 0 ? 0 : 1);
348  }
349  }
350
351
```



LINE 380

low SEVERITY

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

Source File

- L2DAOToken.sol

```
379 unchecked {
380 counter._value += 1;
381 }
382 }
383
384
```



LINE 388

low SEVERITY

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

Source File

- L2DAOToken.sol

```
387 unchecked {
388   counter._value = value - 1;
389  }
390  }
391
392
```



LINE 423

low SEVERITY

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

Source File

- L2DAOToken.sol

```
422 while (temp != 0) {
423  digits++;
424  temp /= 10;
425  }
426  bytes memory buffer = new bytes(digits);
427
```



LINE 424

low SEVERITY

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

Source File

- L2DAOToken.sol

```
423 digits++;
424 temp /= 10;
425 }
426 bytes memory buffer = new bytes(digits);
427 while (value != 0) {
428
```



LINE 428

low SEVERITY

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

Source File

- L2DAOToken.sol

```
427 while (value != 0) {
428  digits -= 1;
429  buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
430  value /= 10;
431  }
432
```



LINE 429

low SEVERITY

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

Source File

- L2DAOToken.sol

```
428 digits -= 1;
429 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
430 value /= 10;
431 }
432 return string(buffer);
433
```



LINE 429

low SEVERITY

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

Source File

- L2DAOToken.sol

```
428 digits -= 1;
429 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
430 value /= 10;
431 }
432 return string(buffer);
433
```



LINE 430

low SEVERITY

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

Source File

- L2DAOToken.sol

```
429 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
430 value /= 10;
431 }
432 return string(buffer);
433 }
434
```



LINE 445

low SEVERITY

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

Source File

- L2DAOToken.sol

```
444 while (temp != 0) {
445 length++;
446 temp >>= 8;
447 }
448 return toHexString(value, length);
449
```



LINE 455

low SEVERITY

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

Source File

- L2DAOToken.sol

```
454 function toHexString(uint256 value, uint256 length) internal pure returns (string
memory) {
455  bytes memory buffer = new bytes(2 * length + 2);
456  buffer[0] = "0";
457  buffer[1] = "x";
458  for (uint256 i = 2 * length + 1; i > 1; --i) {
459
```



LINE 455

low SEVERITY

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

Source File

- L2DAOToken.sol

```
454 function toHexString(uint256 value, uint256 length) internal pure returns (string
memory) {
455  bytes memory buffer = new bytes(2 * length + 2);
456  buffer[0] = "0";
457  buffer[1] = "x";
458  for (uint256 i = 2 * length + 1; i > 1; --i) {
459
```



LINE 458

low SEVERITY

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

Source File

- L2DAOToken.sol

```
457 buffer[1] = "x";
458 for (uint256 i = 2 * length + 1; i > 1; --i) {
459 buffer[i] = _HEX_SYMBOLS[value & 0xf];
460 value >>= 4;
461 }
462
```



LINE 458

low SEVERITY

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

Source File

- L2DAOToken.sol

```
457 buffer[1] = "x";
458 for (uint256 i = 2 * length + 1; i > 1; --i) {
459 buffer[i] = _HEX_SYMBOLS[value & 0xf];
460 value >>= 4;
461 }
462
```



LINE 458

low SEVERITY

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

Source File

- L2DAOToken.sol

```
457 buffer[1] = "x";
458 for (uint256 i = 2 * length + 1; i > 1; --i) {
459 buffer[i] = _HEX_SYMBOLS[value & 0xf];
460 value >>= 4;
461 }
462
```



LINE 1252

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1251 unchecked {
1252 _approve(sender, _msgSender(), currentAllowance - amount);
1253 }
1254
1255 return true;
1256
```



LINE 1271

low SEVERITY

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

Source File

- L2DAOToken.sol

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

1271    _approve(_msgSender(), spender, _allowances[_msgSender()][spender] + addedValue);

1272    return true;

1273  }

1274

1275
```



LINE 1293

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1292 unchecked {
1293 _approve(_msgSender(), spender, currentAllowance - subtractedValue);
1294 }
1295
1296 return true;
1297
```



LINE 1326

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1325 unchecked {
1326  _balances[sender] = senderBalance - amount;
1327 }
1328  _balances[recipient] += amount;
1329
1330
```



LINE 1328

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1327  }
1328  _balances[recipient] += amount;
1329
1330  emit Transfer(sender, recipient, amount);
1331
1332
```



LINE 1349

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1348
1349  _totalSupply += amount;
1350  _balances[account] += amount;
1351  emit Transfer(address(0), account, amount);
1352
1353
```



LINE 1350

low SEVERITY

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

Source File

- L2DAOToken.sol

```
__totalSupply += amount;

1350    _balances[account] += amount;

1351    emit Transfer(address(0), account, amount);

1352

__afterTokenTransfer(address(0), account, amount);

1354
```



LINE 1375

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1374 unchecked {
1375   _balances[account] = accountBalance - amount;
1376  }
1377   _totalSupply -= amount;
1378
1379
```



LINE 1377

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1376      }
1377     _totalSupply -= amount;
1378
1379      emit Transfer(account, address(0), amount);
1380
1381
```



LINE 1616

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1615    uint256    pos = _checkpoints[account].length;
1616    return pos == 0 ? 0 : _checkpoints[account][pos - 1].votes;
1617    }
1618
1619    /**
1620
```



LINE 1666

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1665 } else {
1666 low = mid + 1;
1667 }
1668 }
1669
1670
```



LINE 1670

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1669
1670 return high == 0 ? 0 : ckpts[high - 1].votes;
1671 }
1672
1673 /**
1674
```



LINE 1782

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1781 uint256 pos = ckpts.length;
1782 oldWeight = pos == 0 ? 0 : ckpts[pos - 1].votes;
1783 newWeight = op(oldWeight, delta);
1784
1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786
```



LINE 1785

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1784

1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {

1786  ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);

1787  } else {

1788  ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes: SafeCast.toUint224(newWeight)}));

1789
```



LINE 1786

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786   ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);
1787   } else {
1788   ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes:
SafeCast.toUint224(newWeight)}));
1789   }
1790
```



LINE 1793

low SEVERITY

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

Source File

- L2DAOToken.sol

```
function _add(uint256 a, uint256 b) private pure returns (uint256) {
  return a + b;
  }
  function _subtract(uint256 a, uint256 b) private pure returns (uint256) {
  function _subtract(uint256 a, uint256 b) private pure returns (uint256) {
  1797
```



LINE 1797

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1796 function _subtract(uint256 a, uint256 b) private pure returns (uint256) {
1797 return a - b;
1798 }
1799 }
1800
1801
```



LINE 1851

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1850 if(block.timestamp >= unlockEnd) {
1851  return locked - claimed;
1852 }
1853  return (locked * (block.timestamp - unlockBegin)) / (unlockEnd - unlockBegin) - claimed;
1854 }
1855
```



LINE 1853

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1852 }
1853 return (locked * (block.timestamp - unlockBegin)) / (unlockEnd - unlockBegin) - claimed;
1854 }
1855
1856 /**
1857
```



LINE 1853

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1852 }
1853 return (locked * (block.timestamp - unlockBegin)) / (unlockEnd - unlockBegin) - claimed;
1854 }
1855
1856 /**
```



LINE 1853

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1852 }
1853 return (locked * (block.timestamp - unlockBegin)) / (unlockEnd - unlockBegin) - claimed;
1854 }
1855
1856 /**
1857
```



LINE 1853

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1852 }
1853 return (locked * (block.timestamp - unlockBegin)) / (unlockEnd - unlockBegin) - claimed;
1854 }
1855
1856 /**
1857
```



LINE 1853

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1852 }
1853 return (locked * (block.timestamp - unlockBegin)) / (unlockEnd - unlockBegin) - claimed;
1854 }
1855
1856 /**
1857
```



LINE 1864

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1863    require(block.timestamp < unlockEnd, "TokenLock: Unlock period already complete");
1864    lockedAmounts[recipient] += amount;
1865    require(token.transferFrom(msg.sender, address(this), amount), "TokenLock:
Transfer failed");
1866    emit Locked(msg.sender, recipient, amount);
1867  }
1868</pre>
```



LINE 1879

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1878  }
1879  claimedAmounts[msg.sender] += amount;
1880  require(token.transfer(recipient, amount), "TokenLock: Transfer failed");
1881  emit Claimed(msg.sender, recipient, amount);
1882  }
1883
```



LINE 1913

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1912  uint256 constant teamSupply = 100_000_000e18;
1913  uint256 constant DAOTreasurySupply = 1_000_000_000e18 - airdropSupply -
teamSupply;
1914
1915  bool public vestStarted = false;
1916
1917
```



LINE 1913

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1912  uint256 constant teamSupply = 100_000_000e18;
1913  uint256 constant DAOTreasurySupply = 1_000_000_000e18 - airdropSupply -
teamSupply;
1914
1915  bool public vestStarted = false;
1916
1917
```



LINE 388

low SEVERITY

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

Source File

- L2DAOToken.sol

```
387 unchecked {
388 counter._value = value - 1;
389 }
390 }
391
392
```



LINE 1616

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1615    uint256    pos = _checkpoints[account].length;
1616    return pos == 0 ? 0 : _checkpoints[account][pos - 1].votes;
1617    }
1618
1619    /**
1620
```



LINE 1670

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1669
1670  return high == 0 ? 0 : ckpts[high - 1].votes;
1671  }
1672
1673  /**
1674
```



LINE 1782

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1781 uint256 pos = ckpts.length;
1782 oldWeight = pos == 0 ? 0 : ckpts[pos - 1].votes;
1783 newWeight = op(oldWeight, delta);
1784
1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786
```



LINE 1785

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1784
1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786   ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);
1787  } else {
1788   ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes:
SafeCast.toUint224(newWeight)}));
1789
```



LINE 1786

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1785  if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786   ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);
1787  } else {
1788   ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes:
SafeCast.toUint224(newWeight)}));
1789  }
1790
```



LINE 11

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
10
11 pragma solidity ^0.8.0;
12
13 /**
14 * @dev These functions deal with verification of Merkle Trees proofs.
15
```



LINE 66

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
65
66 pragma solidity ^0.8.0;
67
68 /**
69 * @dev Wrappers over Solidity's uintXX/intXX casting operators with added overflow
70
```



LINE 310

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
309
310 pragma solidity ^0.8.0;
311
312 /**
313 * @dev Standard math utilities missing in the Solidity language.
314
```



LINE 356

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
355
356 pragma solidity ^0.8.0;
357
358 /**
359 * @title Counters
360
```



LINE 402

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
401

402 pragma solidity ^0.8.0;

403

404 /**

405 * @dev String operations.

406
```



LINE 472

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
471
472 pragma solidity ^0.8.0;
473
474
475 /**
476
```



LINE 708

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
707
708 pragma solidity ^0.8.0;
709
710
711 /**
712
```



LINE 814

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
813
814 pragma solidity ^0.8.0;
815
816 /**
817 * @dev Interface of the ERC20 Permit extension allowing approvals to be made via signatures, as defined in
818
```



LINE 877

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
876
877 pragma solidity ^0.8.0;
878
879 /**
880 * @dev Provides information about the current execution context, including the
881
```



LINE 904

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
903
904 pragma solidity ^0.8.0;
905
906
907 /**
908
```



LINE 982

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
981

982 pragma solidity ^0.8.0;

983

984 /**

985 * @dev Interface of the ERC20 standard as defined in the EIP.

986
```



LINE 1067

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
1066
1067 pragma solidity ^0.8.0;
1068
1069
1070 /**
```



LINE 1097

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
1096
1097 pragma solidity ^0.8.0;
1098
1099
1100
1101
```



LINE 1455

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
1454
1455 pragma solidity ^0.8.0;
1456
1457
1458
1459
```



LINE 1544

low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- L2DAOToken.sol

```
1543
1544 pragma solidity ^0.8.0;
1545
1546
1547
1548
```



LINE 1804

low SEVERITY

The current pragma Solidity directive is ""^0.8.2"". 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

- L2DAOToken.sol

```
1803
1804 pragma solidity ^0.8.2;
1805
1806
1807 /**
1808
```



LINE 1888

low SEVERITY

The current pragma Solidity directive is ""^0.8.2"". 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

- L2DAOToken.sol

```
1887
1888 pragma solidity ^0.8.2;
1889
1890
1891
1892
```



LINE 48

low SEVERITY

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

Source File

- L2DAOToken.sol

```
for (uint256 i = 0; i < proof.length; i++) {
  bytes32 proofElement = proof[i];
  if (computedHash <= proofElement) {
    // Hash(current computed hash + current element of the proof)
    computedHash = keccak256(abi.encodePacked(computedHash, proofElement));
}</pre>
```



LINE 429

low SEVERITY

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

Source File

- L2DAOToken.sol

```
428 digits -= 1;
429 buffer[digits] = bytes1(uint8(48 + uint256(value % 10)));
430 value /= 10;
431 }
432 return string(buffer);
433
```



LINE 456

low SEVERITY

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

Source File

- L2DAOToken.sol

```
455 bytes memory buffer = new bytes(2 * length + 2);
456 buffer[0] = "0";
457 buffer[1] = "x";
458 for (uint256 i = 2 * length + 1; i > 1; --i) {
459 buffer[i] = _HEX_SYMBOLS[value & 0xf];
460
```



LINE 457

low SEVERITY

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

Source File

- L2DAOToken.sol

```
456 buffer[0] = "0";

457 buffer[1] = "x";

458 for (uint256 i = 2 * length + 1; i > 1; --i) {

459 buffer[i] = _HEX_SYMBOLS[value & 0xf];

460 value >>= 4;

461
```



LINE 459

low SEVERITY

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

Source File

- L2DAOToken.sol

```
458  for (uint256 i = 2 * length + 1; i > 1; --i) {
459    buffer[i] = _HEX_SYMBOLS[value & 0xf];
460    value >>= 4;
461  }
462    require(value == 0, "Strings: hex length insufficient");
463
```



LINE 459

low SEVERITY

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

Source File

- L2DAOToken.sol

```
458  for (uint256 i = 2 * length + 1; i > 1; --i) {
459    buffer[i] = _HEX_SYMBOLS[value & 0xf];
460    value >>= 4;
461  }
462    require(value == 0, "Strings: hex length insufficient");
463
```



LINE 1594

low SEVERITY

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

Source File

- L2DAOToken.sol

```
function checkpoints(address account, uint32 pos) public view virtual returns
(Checkpoint memory) {
  return _checkpoints[account][pos];
}

function checkpoints(address account, uint32 pos) public view virtual returns
(Checkpoint memory) {
  return _checkpoints[account][pos];
  }

function checkpoints(address account, uint32 pos) public view virtual returns
(Checkpoint memory) {
  return _checkpoints[account][pos];
  }

function checkpoints(address account, uint32 pos) public view virtual returns
(Checkpoint memory) {
  return _checkpoints[account][pos];
  return _checkpoints[account][pos];
```



LINE 1616

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1615    uint256    pos = _checkpoints[account].length;
1616    return pos == 0 ? 0 : _checkpoints[account][pos - 1].votes;
1617    }
1618
1619    /**
1620
```



LINE 1663

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1662    uint256 mid = Math.average(low, high);
1663    if (ckpts[mid].fromBlock > blockNumber) {
1664    high = mid;
1665    } else {
1666    low = mid + 1;
1667
```



LINE 1670

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1669
1670  return high == 0 ? 0 : ckpts[high - 1].votes;
1671  }
1672
1673  /**
1674
```



LINE 1782

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1781 uint256 pos = ckpts.length;
1782 oldWeight = pos == 0 ? 0 : ckpts[pos - 1].votes;
1783 newWeight = op(oldWeight, delta);
1784
1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786
```



LINE 1785

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1784
1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786   ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);
1787  } else {
1788   ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes: SafeCast.toUint224(newWeight)}));
1789
```



LINE 1786

low SEVERITY

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

Source File

- L2DAOToken.sol

```
1785  if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {
1786   ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);
1787  } else {
1788   ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes:
SafeCast.toUint224(newWeight)}));
1789  }
1790
```



LINE 1627

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

- L2DAOToken.sol

```
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
(uint256) {
function getPastVotes(address account, uint256 blockNumber) public view returns
function getPastVotes(address account, uint256 blockNumber);
function getPastVotes(address account, uint256 blockNumber);
function getPastVotes(address account, uint256 block not yet mined);
fun
```



LINE 1640

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

- L2DAOToken.sol

```
function getPastTotalSupply(uint256 blockNumber) public view returns (uint256) {

1640 require(blockNumber < block.number, "ERC20Votes: block not yet mined");

1641 return _checkpointsLookup(_totalSupplyCheckpoints, blockNumber);

1642 }

1643

1644
```



LINE 1785

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

- L2DAOToken.sol

```
1784

1785 if (pos > 0 && ckpts[pos - 1].fromBlock == block.number) {

1786  ckpts[pos - 1].votes = SafeCast.toUint224(newWeight);

1787  } else {

1788  ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes: SafeCast.toUint224(newWeight)}));

1789
```



LINE 1788

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

- L2DAOToken.sol

```
1787  } else {
1788   ckpts.push(Checkpoint({fromBlock: SafeCast.toUint32(block.number), votes:
   SafeCast.toUint224(newWeight)}));
1789  }
1790  }
1791
1792
```



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