

Audit Report

Dual Pools Trend Token

June 2023

Github https://github.com/JavisJL/dualpools/tree/main/TrendTokenAudit

Commit cd7422e149865466766c63ef3e1d46aa6401792a

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Review

Repository	https://github.com/JavisJL/dualpools
Commit	9e2f82407dc61f75e8a95c350ec1690b67b97f9c

Audit Updates

Initial Audit	16 Apr 2023 https://github.com/cyberscope-io/audits/blob/main/xdp/v1/trendoten.pdf dToken.pdf
Corrected Phase 2	24 Apr 2023 <a aud<="" audits="" blob="" cyberscope-io="" github.com="" href="https://github.com/cyberscope-io/audits/blob/main/xdp/v2/trendom/cyberscope-io/audits/blob/main/c</th></tr><tr><th>Corrected Phase 3</th><th>28 Apr 2023 https://github.com/cyberscope-io/audits/blob/main/xdp/v3/tren dToken.pdf</th></tr><tr><th>Corrected Phase 4</th><th>17 May 2023
Corrected Phase 5	13 Jun 2023



Source Files

Filename	SHA256
Address.sol	df780035071456dfc4b41b4647f1ba1e6 9da5e97eff3b0c3c1f2ed5eb4c24994
AggregatorV2V3Interface.sol	a5523f8072d46e9a121390beefd22cf9b 78d00efec1e1f1274c010cacb019495
CompStorageTT.sol	e19ef5d663608b1dfa8132d32ff8e0911a 0e0f373aff70745cdbd9bf004723bd
CompTT.sol	4f22cf9cbb8989f91234123a5f4a75ea47 2605bce164f2d0218788efb7352cb7
DualPool.sol	ddf24f1548fab966f15e4fb3c02ed950fa3 f4a1221c86787b5716a377d2dde62
DualPoolStorage.sol	d0b5fdd0579d88997b23be8a436bddbf 0dbdc69429a7a96c1295d83a5e73a306
ERC20.sol	6b52089f84c5f7e6fbf7f2219ebe31f43e1 04ce89b44b28a72a4371c19a847e6
ERC20Detailed.sol	edbc6746642b1fdb6066c5dacd1c3756f 04c4af57521594fbcb8864c61e5b648
IChainlinkOracle.sol	27cac8821c279a09cdf6b3e0e1985867 db49ef35cce6763df8154daafb77a31e
ICompDP.sol	1fbb60793e8bf070e6e70f05d3e9c6755 7ec73aa637630146f4cdc4206073b48
ICompTT.sol	b71da5599b0e6bbe9fc1d163880a8c3d 0290f9d315c97ac212f99ecde715e818
IERC20.sol	23221a896472eeee23d71500d71f40bc ce31112b9198389310d2e7ff7d0be093



IIncentiveModelSimple.sol	a3a4ee3d50e418aa6163a3a63c55e451 941a0f931848fb259158b41cc489f520
IncentiveModelSimple.sol	c3061f1162142acd6acbb09fbea868bbf c220ecf0680e1075f9f1a0af4a1602d
ITrendToken.sol	7eac00453f65769353394e73abfc46ef3 66ec79bd640069669afd08438abbe00
ITrendTokenTkn.sol	b3286f0e63b4fb4f77cc7d012fff28c06b6 390686542f9c107a65e3b9549137e
IVBep20.sol	4388fcfcdf67909073a1af7353687e653b 9180653281418aced5a607afcc78b8
IVBNB.sol	53487fc7336311df84bdb8faa5d7999ae 61b48b9f72f462ceae53dc34f631435
IXTT.sol	36ff8e43a69fc4b0da21352c652aee0b7 33c841be27fcf3035d9583ea6519ac7
Lens.sol	dfd684164358d48b86653c429aa994f52 f15b244656a1bed2c3da8b30082e9f6
Lib.sol	38b01b1d3513df71ab674cd6061e93c1 d434f5f57efecab71c2131d07a8965e9
SafeERC20.sol	02ac28e67c7239a7a8137b864ef01063 b4b649f8c4609edfb62f1829a8ee9185
SafeMath.sol	4a47d15402f20ec26b0fe15d61f4f6e946 e7949b7beaa6398957b5cadee42931
SignedSafeMath.sol	533257d850b02a32792adfa2e02af99e9 26a1b08af501b37eae82cc174b9c06a
TrendToken.sol	49ec133910ce4e8d774f4b1b74c0363e 767407eb9506b8835ebda6f925f25ffd
TrendTokenStorage.sol	9c0a6aa0c04a8a01149a98cd479dca7fc 54d2c339f10689a6aae3d912553b287



TrendTokenTkn.sol	0022a6b8e6d71e032073f4f6aad22a294 d19098e72d51c097bf82e179a7f44a8
UniTT.sol	57442216e7dc8993ab5fe99cb5699b23 865cd42fd0f8b983e87746de31e32003
XTTgov.sol	11160e5e1becd7e1f6f43af23b635a245 92ade0b1627b4d79252ff64ed6e292b



Findings Breakdown



Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	0	0	0	0
Minor / Informative	0	5	0	0



Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	UIA	Unsafe Indexing Assumption	Acknowledged
•	MT	Mints Tokens	Acknowledged
•	L02	State Variables could be Declared Constant	Acknowledged
•	L04	Conformance to Solidity Naming Conventions	Acknowledged
•	L19	Stable Compiler Version	Acknowledged



UIA - Unsafe Indexing Assumption

Criticality	Minor / Informative
Status	Acknowledged

Description

The contract assumes that the desiredAllocations indexes are identical to the market's tokens indexes. This assumption could be broken if the desiredAllocations or market's tokens change without updating the corresponding structures. As a result, the entire contract will yield to an unexpected state.

```
desiredAllocations = _allocations;
emit SetDesiredAllocationsFresh(getMarkets(), oldAllocations,
desiredAllocations);

//...

if (IVBep20(dTokens[i]) == dTokensInOut[0]) {
    tokenEquityInOut[0] = conVals[i].add(colVals[i]);
    desiredAllocations[0] = desiredAllocations[i];
}
```

Recommendation

The team is advised to carefully investigate the circumstances where the indexes could be diverse. A recommended way could be to allow only synchronized modifications of these properties.

Team Update

Trading bot will ensure proper index when changing order of markets (tokens) or adjusting desired allocations.



MT - Mints Tokens

Criticality	Minor / Informative
Location	DualPool.sol#L317
Status	Acknowledged

Description

When the authorized addresses have the necessary actions unlocked, the manager role has the authority to arbitrarily mint tokens. If all the conditions are met, the managers can invoke the _supplyCollateral function, leading to potential inflation of tokens within the contract.

```
function _adjustCollateral(IERC20 _bep20, uint _supplyAmt, uint
_redeemAmt) onlyManager requireUnlocked external {
    IVBep20 dToken = dTokenSupportedRequire(_bep20);
    if (_supplyAmt > 0) {
        collateralSupply(_bep20,dToken, _supplyAmt);
    } else if (_redeemAmt > 0) {
        collateralRedeem(_bep20,dToken,_redeemAmt);
    }
}
```

Recommendation

The team should carefully manage the private keys and the implementation of the trading bot account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. Some suggestions are:

- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.
- Renouncing the ownership will eliminate the threats but it is non-reversible.

Team Update

This only affects supplying and redeeming supplied assets to the lending/borrowing protocol Dual Pools (fork of Venus). In addition to the ability to mint tokens (supply and



redeem collateral) being restricted to the manager, it also requires these actions to be "unlocked" by the tradingBot. We will tolerate this risk



L02 - State Variables could be Declared Constant

Criticality	Minor / Informative
Location	TrendTokenStorage.sol#L220,228
Status	Acknowledged

Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
IXTT public xtt
IERC20 public xdp
...
```

Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	TrendTokenStorage.sol#L111 TrendToken.sol#L104,185,216,247,262,273,287,299,309,320,330,348,359,371,385,414,424,440,451,470,479,492,507,524,545,585,614,677,707,753,790,815,836,875,883,904,924,946,984,1047,1067,1076,1106,1156 Lib.sol#L27,32 DualPool.sol#L51,70,82,95,105,116,128,144 CompTT.sol#L218,227,239,250,263,275,299,338,377,397,406,416,426,437,448
Status	Acknowledged

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.



```
address _recipient
uint256 _amount
bool internal _notEntered
address _owner
address _compTT
```

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

https://docs.soliditylang.org/en/v0.8.17/style-guide.html #naming-convention.



L19 - Stable Compiler Version

Criticality	Minor / Informative
Location	TrendTokenStorage.sol#L2 TrendToken.sol#L2Lib.sol#L2 ITrendToken.sol#L2Lib.sol#L2 ITrendTokenTkn.sol#L2 ITrendToken.sol#L2ICompTT.sol#L2 ICompDP.sol#L2DualPoolStorage.sol#L2 DualPool.sol#L2CompTT.sol#L2 CompStorageTT.sol#L2
Status	Acknowledged

Description

The ^ symbol indicates that any version of Solidity that is compatible with the specified version (i.e., any version that is a higher minor or patch version) can be used to compile the contract. The version lock is a mechanism that allows the author to specify a minimum version of the Solidity compiler that must be used to compile the contract code. This is useful because it ensures that the contract will be compiled using a version of the compiler that is known to be compatible with the code.

```
pragma solidity ^0.5.16;
```

Recommendation

The team is advised to lock the pragma to ensure the stability of the codebase. The locked pragma version ensures that the contract will not be deployed with an unexpected version. An unexpected version may produce vulnerabilities and undiscovered bugs. The compiler should be configured to the lowest version that provides all the required functionality for the codebase. As a result, the project will be compiled in a well-tested LTS (Long Term Support) environment.



Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Address	Library			
	isContract	Internal		
	toPayable	Internal		
	sendValue	Internal	✓	
AggregatorV2V 3Interface	Interface			
	latestAnswer	External		-
	latestTimestamp	External		-
	latestRound	External		-
	getAnswer	External		-
	getTimestamp	External		-
	decimals	External		-
	description	External		-
	version	External		-
	getRoundData	External		-
	latestRoundData	External		-
UnitrollerAdmin Storage	Implementation			



ComptrollerSto rage	Implementation	UnitrollerAd minStorage		
CompTT	Implementation	ComptrollerS torage		
		Public	✓	-
	ensureAdmin	Private		
	ensureNonzeroAddress	Private		
	depositOrRedeemAllowed	External		onlyProtocolAll owed
	tradeAllowed	External		onlyProtocolAll owed
	getBlockNumber	External		-
	getXVSAddress	External		-
	returnDToken	External		onlyProtocolAll owed
	trendTokenIsListed	External		-
	trendTokenIsActive	External		-
	trendTokenIsTrade	External		-
	trendTokenAllowedDualPools	External		-
	trendTokenMaxTradeFee	External		-
	trendTokenMaxPerformanceFee	External		-
	trendTokenMaxDisableValue	External		-
	_become	External	1	requireUnlocke d
	_setProtocolPaused	External	✓	validPauseState
	_updateLockedState	External	✓	-
	_updateLockedWallet	External	✓	-



	_setMintPaused	External	✓	validPauseState
	_setPriceOracle	External	✓	requireUnlocke d
	_setPauseGuardian	External	✓	requireUnlocke d
	supportTokenFresh	Internal	✓	
	_supportToken	External	✓	requireUnlocke d
	trendTokenSupported	Internal		
	_supportTrendTokenFresh	Internal	✓	
	_supportTrendToken	External	✓	requireUnlocke d
	_newlsActive	External	✓	requireUnlocke d onlySupportedT rendTokens
	_newlsTrade	External	✓	requireUnlocke d onlySupportedT rendTokens
	_newAllowedDualPools	External	1	requireUnlocke d onlySupportedT rendTokens
	_newMaxTradeFee	External	1	requireUnlocke d onlySupportedT rendTokens
	_newMaxPerformanceFee	External	1	requireUnlocke d onlySupportedT rendTokens
	_newMaxDisableValue	External	✓	requireUnlocke d onlySupportedT rendTokens
DualPoolIntegr ation	Implementation	DualPoolStor age		



		Public	1	-
		External	Payable	-
	screenshot	Internal		
	getMarkets	Internal		
	priceBEP20	Internal		
	exchangeVBEP20	Internal		
	enableCol	Internal	✓	
	disableCol	Internal	✓	
	tokenEntered	Internal		
	collateralSupply	Internal	✓	
	collateralRedeem	Internal	✓	
DualPoolStorag e	Implementation			
ERC20	Implementation	IERC20		
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-



	_transfer	Internal	✓	
	_mint	Internal	1	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_burnFrom	Internal	1	
ERC20Detailed	Implementation	IERC20		
		Public	1	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
IOracle	Interface			
	getUnderlyingPrice	External		-
	getFeed	External		-
	getChainlinkPrice	External		-
ICompDP	Interface			
	enterMarkets	External	✓	-
	claimXDP	External	✓	-
	venusAccrued	External		-
	getAssetsIn	External		-
	markets	External		-



	getAccountLiquidity	External		-
	closeFactorMantissa	External		-
	exitMarket	External	1	-
	getHypotheticalAccountLiquidity	External		-
	checkMembership	External		-
	iUSDaddress	External		-
ICompTT	Implementation			
	oracle	External		-
	protocolPaused	External		-
	depositOrRedeemAllowed	External		-
	tradeAllowed	External		-
	returnDToken	External		-
	trendTokenIsListed	External		-
	trendTokenIsActive	External		-
	trendTokenIsTrade	External		-
	trendTokenAllowedDualPools	External		-
	trendTokenMaxTradeFee	External		-
	trendTokenMaxPerformanceFee	External		-
	trendTokenMaxDisableValue	External		-
IERC20	Interface			
	totalSupply	External		-



	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IIncentiveMode ISimple	Interface			
	protocolFeeTrade	External		-
	protocolFeeDeposit	External		-
	protocolFeeRedeem	External		-
	isIncentiveModel	External		-
	totalDepositFee	External		-
	totalRedeemFee	External		-
	valueOutAfterSell	External		-
	valueOutAfterBuy	External		-
IncentiveModel Simple	Implementation	IIncentiveMo delSimple		
		Public	✓	-
	_updateTradeFeeDiscounts	External	✓	-
	_updateDepositFee	External	✓	-
	_updateRedeemFee	External	✓	-
	_updateProtocolFeeTrade	External	✓	-
	feeDiscount	Public		-



	_updateFeePerToken	External	✓	-
	returnFeePerToken	Internal		
	returnFeePerTokenExt	External		-
	depositRewardOrFee	Internal		
	redeemRewardOrFee	Internal		
	totalDepositFee	External		-
	totalRedeemFee	External		-
	valueOutAfterSell	External		-
	valueOutAfterBuy	External		-
ITrendToken	Interface			
	incentiveModel	External		-
	storedEquity	External		-
	trendToken	External		-
	performanceFee	External		-
	desiredAllocations	External		-
	lastRebalance	External		-
	isTrendToken	External		-
	compDP	External		-
	dBNB	External		-
	priceExt	External		-
	trendTokenToUSDext	External		-
	trendTokenOutExternal	External		-



	trendTokenInExternal	External		-
	tradeInfoExt	External		-
ITrendTokenTk n	Interface			
	mint	External	✓	-
	name	External		-
	burn	External	✓	-
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transfersFrom	External	✓	-
IVBep20	Interface			
	balanceOf	External		-
	balanceOfUnderlying	External	✓	-
	mint	External	✓	-
	repayBorrow	External	✓	-
	redeemUnderlying	External	✓	-
	exchangeRateStored	External		-
	borrowBalanceCurrent	External	√	-
	borrow	External	✓	-



	getCash	External		-
	getAccountSnapshot	External		-
	borrowBalanceStored	External		-
	totalBorrowsCurrent	External	✓	-
	accrueInterest	External	✓	-
	amountsOut	External		-
	swapExactTokensForTokens	External	✓	-
	underlying	External		-
IVBNB	Interface			
	balanceOf	External		-
	balanceOfUnderlying	External	1	-
	mint	External	Payable	-
	repayBorrow	External	Payable	-
	redeemUnderlying	External	✓	-
	exchangeRateStored	External		-
	borrowBalanceCurrent	External	✓	-
	borrow	External	✓	-
	getAccountSnapshot	External		-
	borrowBalanceStored	External		-
	totalBorrowsCurrent	External	✓	-
	swapExactETHForTokens	External	Payable	-



IXTT	Interface			
	burn	External	✓	-
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transfersFrom	External	✓	-
TrendLens	Implementation			
		Public	✓	-
	trendTokenData	Public		-
	trendTokenDataAll	Public		-
	swapPairsOld	External		-
	trendTokenPortfolio	Public		-
	removeUnderlyingFromPortfolio	Public		-
	portfolioAddTrendToken	Public		-
	swapPairs	External		-
	trendTokenOutAndFee	Public		-
	underlyingInAndFee	Public		-
	depositAmountsAndFee	Public		-
	trendTokenInAndFee	Public		-
	underlyingOutAndFee	Public		-



	redeemAmountsAndFees	Public		-
	balance	Public		-
	walletBalance	Public		-
	amountsAndFees	External		-
	amountsAndFeesTradeHelper	Internal		
	amountsAndFeesTrade	External		-
Lib	Library			
	pathGenerator2	Internal		
	getValue	Internal		
	getAssetAmt	Internal		
SafeERC20	Library			
	safeTransfer	Internal	✓	
	safeTransferFrom	Internal	✓	
	safeApprove	Internal	✓	
	safeIncreaseAllowance	Internal	✓	
	safeDecreaseAllowance	Internal	✓	
	callOptionalReturn	Private	✓	
SafeMath	Library			
	add	Internal		
	add	Internal		



	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
SignedSafeMat h	Library			
	mul	Internal		
	div	Internal		
	sub	Internal		
	add	Internal		
TrendToken	Implementation	DualPoolInte gration, TrendTokenS torage		
		Public	✓	DualPoolIntegra tion
		External	Payable	-
	onlyModifiers	Internal		
	requireUnderAmount	Internal		
	_updateCompAndModels	External	✓	onlyManager requireUnlocke d
	_updateManagerRecipientAndBot	External	✓	onlyManager requireUnlocke d



_newPerformanceFee	External	1	onlyManager requireUnlocke d
_updateTrendTokenBurn	External	✓	onlyManager
_setReferralReward	External	✓	onlyManager
_maxDisableValue	External	1	onlyManager requireUnlocke d
_setMaxSupply	External	✓	onlyManager
setContractFactor	Internal	✓	
_setContractFactor	External	✓	onlyManager
_adjustCollateral	External	✓	onlyManager requireUnlocke d
_updateLocked	External	✓	onlyTradingBot
_depositsDisabled	External	✓	onlyTradingBot
_pauseTrendToken	External	✓	onlyTradingBot
dTokenSupportedRequire	Internal		
_setDesiredAllocationsFresh	Internal	✓	
_setDesiredAllocations	External	✓	onlyTradingBot
_enableTokens	External	✓	onlyTradingBot
checkActiveToken	Internal		
_disableToken	External	✓	onlyTradingBot
_redeemPerformanceFee	External	✓	onlyManager
_reduceTrendTokenReservesToRecipien t	External	✓	onlyManager
_redeemXDPtoRecipient	External	✓	onlyManager
priceExt	External		-



trendTokenToUSDext	External		-
trendTokenExternal	External		_
storedEquityExternal	External		_
tokenInfoExternal	External		_
tradeInfoExt	External		_
calculatePerformanceFee	Internal		
sendPerformanceFee	Internal	√	
		•	
balanceXDP	Internal		
contractBal	Internal		
storedEquity	Internal		
trendTokenToUSD	Internal		
trendTokenToUSD	Internal		
tokenInfo	Internal		
tokenEquityVal	Internal		
distributeReferralReward	Internal	✓	
trendTokenOutCalculations	Internal		
depositFresh	Internal	✓	pausedTrendTo ken
depositBNB	External	Payable	nonReentrant ensureDeadline
deposit	External	✓	nonReentrant ensureDeadline
sendUnderlyingOut	Internal	✓	
trendTokenInCalculations	Internal		
redeemFresh	Internal	✓	pausedTrendTo ken



	redeem	External	✓	nonReentrant ensureDeadline
	tradeInfo	Internal		
	executeTrade	Internal	✓	pausedTrendTo ken ensureDeadline
	swapExactTokensForTokens	External	✓	nonReentrant
	swapExactETHForTokens	External	Payable	nonReentrant
	returnUnderlying	Internal		
	singleSupplyAndRedeemRebalance	Internal	✓	
	publicSupplyAndRedeemRebalance	External	✓	pausedTrendTo ken
TrendTokenStor age	Implementation			
TrendTokenTkn	Implementation	ERC20, ERC20Detail ed		
		Public	✓	ERC20Detailed
	mint	External	✓	requireMinter
	burn	External	✓	-
	transfersFrom	External	✓	-
Unitroller	Implementation	UnitrollerAd minStorage		
		Public	✓	-
	_setPendingImplementation	Public	✓	-
	_acceptImplementation	Public	✓	-



	_setPendingAdmin	Public	✓	-
	_acceptAdmin	Public	✓	-
		External	Payable	-
Owned	Implementation			
		Public	1	-
	transferOwnership	Public	1	onlyOwner
Tokenlock	Implementation	Owned		
	freeze	Public	✓	onlyOwner
	unfreeze	Public	✓	onlyOwner
ХТТ	Implementation	Tokenlock		
		Public	✓	-
	burn	External	✓	-
	allowance	External		-
	approve	External	✓	validLock
	balanceOf	External		-
	transfer	External	✓	validLock
	transferFrom	External	✓	validLock
	delegate	Public	✓	validLock
	delegateBySig	Public	✓	validLock
	getCurrentVotes	External		-



getPriorVotes	Public		-
_delegate	Internal	1	
_transferTokens	Internal	1	
_moveDelegates	Internal	1	
_writeCheckpoint	Internal	✓	
safe32	Internal		
safe96	Internal		
add96	Internal		
sub96	Internal		
sub256	Internal		
getChainId	Internal		

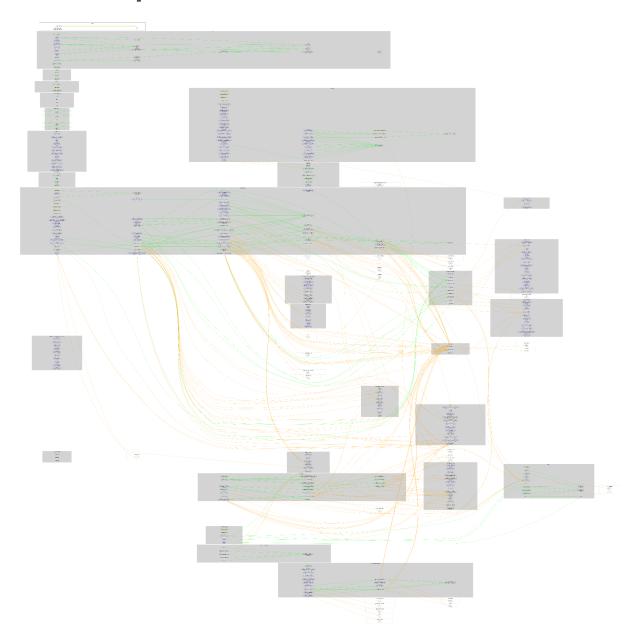


Inheritance Graph





Flow Graph





Summary

Dual Pools contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements.



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Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.

