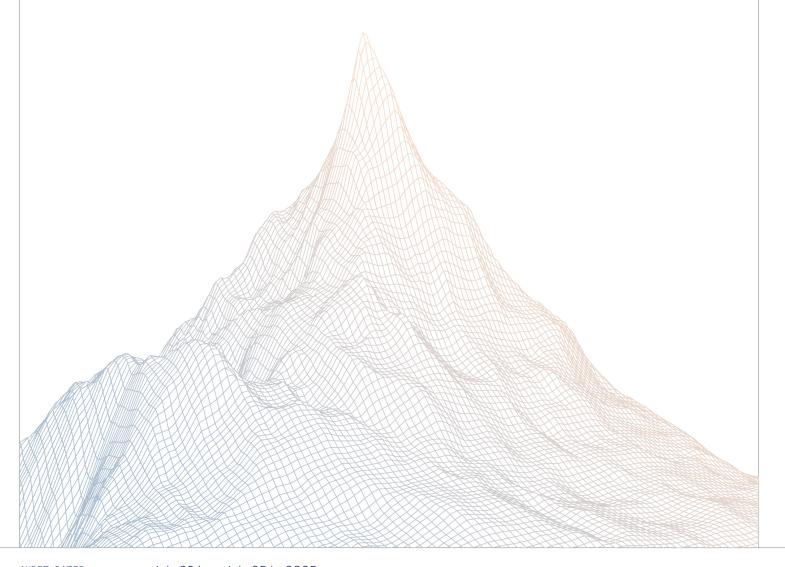


# Morpheus

# Smart Contract Security Assessment

VERSION 1.1



AUDIT DATES:

July 22th to July 25th, 2025

AUDITED BY:

rscodes said

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1	Intro	oduction	2
	1.1	About Zenith	3
	1.2	Disclaimer	3
	1.3	Risk Classification	3
2	Exec	cutive Summary	3
	2.1	About Morpheus	4
	2.2	Scope	4
	2.3	Audit Timeline	5
	2.4	Issues Found	5
3	Find	ings Summary	5
4	Find	ings	6
	4.1	Critical Risk	7
	4.2	High Risk	10
	4.3	Medium Risk	12
	4.4	Low Risk	17
	4.5	Informational	26



#### 7

#### Introduction

#### 1.1 About Zenith

Zenith assembles auditors with proven track records: finding critical vulnerabilities in public audit competitions.

Our audits are carried out by a curated team of the industry's top-performing security researchers, selected for your specific codebase, security needs, and budget.

Learn more about us at https://zenith.security.

#### 1.2 Disclaimer

This report reflects an analysis conducted within a defined scope and time frame, based on provided materials and documentation. It does not encompass all possible vulnerabilities and should not be considered exhaustive.

The review and accompanying report are presented on an "as-is" and "as-available" basis, without any express or implied warranties.

Furthermore, this report neither endorses any specific project or team nor assures the complete security of the project.

#### 1.3 Risk Classification

SEVERITY LEVEL	IMPACT: HIGH	IMPACT: MEDIUM	IMPACT: LOW
Likelihood: High	Critical	High	Medium
Likelihood: Medium	High	Medium	Low
Likelihood: Low	Medium	Low	Low

### 2

#### **Executive Summary**

### 2.1 About Morpheus

Morpheus is a Decentralized AI network designed to incentivize a network of Smart Agents, general-purpose AI that can execute Smart Contracts on behalf of users. It utilizes LLM (Large Language Model) Transformer technology to convert human language into actionable code for Web3 interactions, using intent-based abstractions.

The objective of Morpheus is to allow anyone who wants to deploy a Smart Agent or Decentralized Al application to have the compute, capital, code and community rails they need to do so.

### 2.2 Scope

The engagement involved a review of the following targets:

Target	SmartContracts	
Repository	https://github.com/MorpheusAls/SmartContracts	
Commit Hash	091b6f7ecbb2933c9d1a805bd4e4c926a02f38a6	
Files	contracts/capital-protocol/* (except DistributionV6.sol)	

### 2.3 Audit Timeline

July 22, 2025	Audit start
July 25, 2025	Audit end
July 31, 2025	Draft report published

### 2.4 Issues Found

SEVERITY	COUNT
Critical Risk	1
High Risk	1
Medium Risk	2
Low Risk	4
Informational	2
Total Issues	10



## 3

## Findings Summary

ID	Description	Status
C-1	withdraw functionality will not work with the Aave strategy	Resolved
H-1	Updating rewardPoolLastCalculatedTimestamp early allows a griefer to deny reward distribution	Resolved
M-1	Attackers can potentially halt staking in some deposit pools	Acknowledged
M-2	Using the same token in multiple DepositPools causes in- correct yield accounting	Resolved
L-1	Chainlink may return stale prices leading to incorrect token valuation	Resolved
L-2	Updating rewardPoolLastCalculatedTimestamp with zero rewards enables griefing attack	Resolved
L-3	Migration will fail if the pool has no yield	Acknowledged
L-4	Self-referring is possible and can potentially be abused by users	Acknowledged
1-1	Calculation method can be improved to eliminate any chance of overflow	Resolved
I-2	Missing claim for Aave incentives inside Distributor leads to unclaimed rewards	Resolved

### 4

#### Findings

#### 4.1 Critical Risk

A total of 1 critical risk findings were identified.

#### [C-1] withdraw functionality will not work with the Aave strategy

SEVERITY: Critical	IMPACT: High
STATUS: Resolved	LIKELIHOOD: High

#### **Target**

DepositPool.sol#L455

#### **Description:**

When withdraw is requested, it checks the requested amount\_against the depositToken balance in the Distributor. If it is greater than the balance, the amount is set to the balance.

• DepositPool.sol#L455

```
function _withdraw(address user_, uint256 rewardPoolIndex_,
uint256 amount_, uint256 currentPoolRate_) private {
   require(isMigrationOver =
    true, "DS: migration isn't over");
   RewardPoolProtocolDetails storage rewardPoolProtocolDetails
= rewardPoolsProtocolDetails[rewardPoolIndex ];
   RewardPoolData storage rewardPoolData
= rewardPoolsData[rewardPoolIndex_];
   UserData storage userData = usersData[user_][rewardPoolIndex_];
   uint256 deposited_ = userData.deposited;
   require(deposited_ > 0, "DS: user isn't staked");
   if (amount_ > deposited_) {
        amount_ = deposited_;
    }
   uint256 newDeposited_;
 if (IRewardPool
```

However, in the Distributor contract, if the RewardPool strategy is AAVE, it supplies all depositToken to Aave.

• Distributor.sol#L273-L275

```
function supply
(uint256 rewardPoolIndex_, uint256 amount_) external {
    address depositPoolAddress_ = _msgSender();
    _onlyExistedDepositPool(rewardPoolIndex_, depositPoolAddress_);
   DepositPool storage depositPool
   = depositPools[rewardPoolIndex ][depositPoolAddress ];
   require(depositPool.strategy ≠ Strategy.NO_YIELD, "DR: invalid strategy
   for the deposit pool");
   distributeRewards(rewardPoolIndex );
   _withdrawYield(rewardPoolIndex_, depositPoolAddress_);
   IERC20(depositPool.token).safeTransferFrom(depositPoolAddress_,
   address(this), amount );
   if (depositPool.strategy = Strategy.AAVE) {
AaveIPool(aavePool).supply(depositPool.token, amount_, address(this), 0);
   }
   depositPool.deposited += amount_;
   depositPool.lastUnderlyingBalance += amount_;
```



And there is no functionality in the Distributor to pull funds from Aave, other than withdraw, which causes user funds to be stuck and unwithdrawable, since the depositToken balance in the Distributor will be zero.

#### **Recommendations:**

Instead of using the depositToken balance, depositPool.deposited or the aToken balance of the Distributor can be used.

Morpheus: Resolved with @ff56ece2d60a...



### 4.2 High Risk

A total of 1 high risk findings were identified.

[H-1] Updating rewardPoolLastCalculatedTimestamp early allows a griefer to deny reward distribution

```
SEVERITY: High

IMPACT: High

STATUS: Resolved

LIKELIHOOD: Medium
```

#### **Target**

• Distributor.sol#L322

#### **Description:**

Inside distributeRewards, rewardPoolLastCalculatedTimestamp is updated to block.timestamp before the minRewardsDistributePeriod check is performed.

• Distributor.sol#L322

```
function distributeRewards(uint256 rewardPoolIndex_) public {
    //// Base validation
    IRewardPool rewardPool = IRewardPool(rewardPool);
    rewardPool_.onlyExistedRewardPool(rewardPoolIndex_);
    uint128 lastCalculatedTimestamp_
= rewardPoolLastCalculatedTimestamp[rewardPoolIndex_];
    require(lastCalculatedTimestamp_{-}\neq0, "DR:
`rewardPoolLastCalculatedTimestamp` isn't set");
    //// End
    //// Calculate the reward amount
    uint256 rewards_ = IRewardPool(rewardPool).getPeriodRewards(
        rewardPoolIndex_,
        lastCalculatedTimestamp_,
        uint128(block.timestamp)
    rewardPoolLastCalculatedTimestamp[rewardPoolIndex_]
= uint128(block.timestamp);
```



```
if (rewards_{-} = 0) return;
    //// End
   // Stop execution when the reward pool is private
if (!rewardPool .isRewardPoolPublic (rewardPoolIndex )) {
_onlyExistedDepositPool(rewardPoolIndex_,
depositPoolAddresses[rewardPoolIndex_][0]);
distributedRewards
    [rewardPoolIndex ]
    [depositPoolAddresses[rewardPoolIndex_][0]]
      += rewards_;
       return;
    }
   // Validate that public reward pools await
`minRewardsDistributePeriod`
if (block.timestamp <= lastCalculatedTimestamp_</pre>
+ minRewardsDistributePeriod) return;
    // ...
}
```

If block.timestamp is less than or equal to lastCalculatedTimestamp\_ + minRewardsDistributePeriod, the operation will return early without distributing rewards, even though rewardPoolLastCalculatedTimestamp has already been updated.

This opens a griefing attack vector, where an attacker repeatedly calls distributeRewards before minRewardsDistributePeriod has passed, updating rewardPoolLastCalculatedTimestamp and preventing proper reward distribution.

#### **Recommendations:**

Update rewardPoolLastCalculatedTimestamp only after passing the minRewardsDistributePeriod check.

Morpheus: Resolved with @406ad354f30...



#### 4.3 Medium Risk

A total of 2 medium risk findings were identified.

# [M-1] Attackers can potentially halt staking in some deposit pools

SEVERITY: Medium	IMPACT: Medium
STATUS: Acknowledged	LIKELIHOOD: Low

#### **Target**

DepositPool.sol

#### **Description:**

In stake of DepositPool.sol, the code uses rewardPoolsProtocolDetails[rewardPoolIndex\_].distributedRewards to account for the total amount of tokens that were distributed as rewards so far.

In \_getCurrentPoolRate we can see that the rewards\_ that get returned to be added to the .distributedRewards is:

Next we notice that there is no reentrancy guard in stake and in \_stake there is an external call:

```
IERC20(depositToken).safeTransferFrom(_msgSender(), address(this), amount_);
```

Hence if the token has the callback, attackers can exploit the following sequence:

- 1. currently accounted for rewards = 10
- 2. Attacker calls stake
- 3. New distributed becomes 15 hence rewards is returned as 15 10 = 5.



- 4. But in \_stake attacker gets an reentrant call.
- 5. Attacker calls stake again (in the callback)
- 6. Rewards returned calculated in \_getCurrentPoolRate will still be 5
- 7. rewardPoolsProtocolDetails[rewardPoolIndex\_].distributedRewards += 5
- 8. Callback ends, original trace continues
- 9. rewardPoolsProtocolDetails[rewardPoolIndex\_].distributedRewards += 5 (again)

Now rewardPoolsProtocolDetails[rewardPoolIndex\_].distributedRewards is more than IDistributor(distributor).getDistributedRewards(rewardPoolIndex\_, address(this)).

This means the internal function \_getCurrentPoolRate called by stake will revert due to it being negative from the next call onwards:

Hence, stake will be bricked.

#### **Recommendations:**

Consider adding a re-entrant guard to stake.

Morpheus: Acknowledged.

# [M-2] Using the same token in multiple DepositPools causes incorrect yield accounting

SEVERITY: Medium	IMPACT: Medium
STATUS: Resolved	LIKELIHOOD: Low

#### **Target**

- Distributor.sol#L358
- Distributor.sol#L172-L225

#### **Description:**

When distributeRewards is called and yield of each pool is calculated, it uses token balance inside the Distributor to determine the earned yield.

• Distributor.sol#L358

```
function distributeRewards(uint256 rewardPoolIndex_) public {
    //// Base validation
    IRewardPool rewardPool = IRewardPool(rewardPool);
    rewardPool_.onlyExistedRewardPool(rewardPoolIndex_);
   uint128 lastCalculatedTimestamp_
= rewardPoolLastCalculatedTimestamp[rewardPoolIndex_];
    require
    (lastCalculatedTimestamp_{-}\neq 0, "DR:
`rewardPoolLastCalculatedTimestamp` isn't set");
   //// End
    //// Calculate the reward amount
   uint256 rewards_ = IRewardPool(rewardPool).getPeriodRewards(
       rewardPoolIndex_,
       lastCalculatedTimestamp_,
       uint128(block.timestamp)
   rewardPoolLastCalculatedTimestamp[rewardPoolIndex_]
= uint128(block.timestamp);
   if (rewards_{-} = 0) return;
    //// End
```



```
// Stop execution when the reward pool is private
       if (!rewardPool_.isRewardPoolPublic(rewardPoolIndex_))
   {
             onlyExistedDepositPool(rewardPoolIndex ,
   depositPoolAddresses[rewardPoolIndex_][0]);
       distributedRewards
           [rewardPoolIndex ]
            [depositPoolAddresses
            [rewardPoolIndex_][0]] += rewards_;
           return;
        }
       // Validate that public reward pools await
    `minRewardsDistributePeriod`
       if (block.timestamp
        <= lastCalculatedTimestamp_ + minRewardsDistributePeriod) return;</pre>
       //// Update prices
       updateDepositTokensPrices(rewardPoolIndex_);
        //// End
       //// Calculate `yield` from all deposit pools
       uint256 length_ = depositPoolAddresses[rewardPoolIndex_].length;
       uint256 totalYield_ = 0;
       uint256[] memory yields_ = new uint256[](length_);
        for (uint256 i = 0; i < length_; i++) {
           DepositPool storage depositPool =
   depositPools[rewardPoolIndex_][depositPoolAddresses[rewardPoolIndex_][i]];
           address yieldToken_;
           if (depositPool.strategy = Strategy.AAVE) {
               yieldToken_ = depositPool.aToken;
           } else if (depositPool.strategy = Strategy.NONE) {
               // The current condition coverage cannot be achieved in the
   current version.
               // Added to avoid errors in the future.
               yieldToken_ = depositPool.token;
           }
            uint256 balance_ = IERC20(yieldToken_).balanceOf(address(this));
>>>
           uint256 decimals_ = IERC20Metadata(yieldToken_).decimals();
            uint256 underlyingYield_ = (balance_
   depositPool.lastUnderlyingBalance)
               .to18(decimals );
           uint256 yield_ = underlyingYield_ * depositPool.tokenPrice;
```



```
depositPool.lastUnderlyingBalance = balance_;

yields_[i] = yield_;
    totalYield_ += yield_;
}
// ...
}
```

This means if there are duplicate depositPool.token or depositPool.aToken entries, the pool's yield will be miscalculated, leading to incorrect reward distribution across pools.

This scenario is possible because addDepositPool doesn't validate whether aToken or token\_ is already used by another pool.

• Distributor.sol#L172-L225

#### **Recommendations:**

Consider adding validation in addDepositPool to ensure aToken and token\_ are unique for each DepositPool.

Morpheus: Resolved with @406ad354f30...



#### 4.4 Low Risk

A total of 4 low risk findings were identified.

# [L-1] Chainlink may return stale prices leading to incorrect token valuation

```
SEVERITY: Low IMPACT: Low

STATUS: Resolved LIKELIHOOD: Low
```

#### **Target**

• ChainLinkDataConsumer.sol#L75-L89

#### **Description:**

When getChainLinkDataFeedLatestAnswer is called to query token prices, it doesn't validate the freshness of the returned data. This could result in the protocol using outdated prices.

```
function
  getChainLinkDataFeedLatestAnswer(bytes32 pathId_)
  external view returns (uint256) {
  address[] memory dataFeeds_ = dataFeeds[pathId_];

uint256 res_ = 0;
  uint8 baseDecimals_ = 0;
  for
  (uint256 i = 0; i < dataFeeds_.length; i++) {
    AggregatorV3Interface aggregator_
  = AggregatorV3Interface(dataFeeds_[i]);

    try aggregator_.latestRoundData()
    returns
  (uint80, int256 answer_, uint256, uint256, uint80) {
        if (answer_ <= 0) {
            return 0;
        }

        if (res_ = 0) {</pre>
```

```
res_ = uint256(answer_);
    baseDecimals_ = aggregator_.decimals();
} else {
    res_ = (res_ * uint256(answer_))
/ (10 ** aggregator_.decimals());
    }
} catch {
    return 0;
}

return res_.convert(baseDecimals_, 18);
```

#### **Recommendations:**

It's recommended to implement a freshness check by validating the updatedAt timestamp returned by the oracle against the feed's heartbeat, return 0 if the price is stale.

Morpheus: Resolved with @406ad354f30...



# [L-2] Updating rewardPoolLastCalculatedTimestamp with zero rewards enables griefing attack

SEVERITY: Low	IMPACT: Low
STATUS: Resolved	LIKELIHOOD: Low

#### **Target**

• Distributor.sol#L322-L323

#### **Description:**

When distributeRewards is called and rewards is O, it still updates rewardPoolLastCalculatedTimestamp.

```
function distributeRewards(uint256 rewardPoolIndex_) public {
        //// Base validation
        IRewardPool rewardPool_ = IRewardPool(rewardPool);
        rewardPool_.onlyExistedRewardPool(rewardPoolIndex_);
       uint128 lastCalculatedTimestamp_
    = rewardPoolLastCalculatedTimestamp[rewardPoolIndex_];
        require(lastCalculatedTimestamp_ ≠ 0, "DR:
    `rewardPoolLastCalculatedTimestamp` isn't set");
       //// End
       //// Calculate the reward amount
       uint256 rewards_ = IRewardPool(rewardPool).getPeriodRewards(
           rewardPoolIndex ,
           lastCalculatedTimestamp_,
           uint128(block.timestamp)
        rewardPoolLastCalculatedTimestamp[rewardPoolIndex_]
   = uint128(block.timestamp);
>>>
       if (rewards_{-} = 0) return;
        // ...
```

This can cause issue, rewards can be 0 in certain scenario where the interval between lastCalculatedTimestamp\_ and current block.timestamp is small enough causing

calculated reward to be 0. The likelihood increases with tokens that have low decimals.

Linear Distribution Interval Decrease. sol #L49-L54

```
function getPeriodReward(
   uint256 initialAmount ,
   uint256 decreaseAmount_,
   uint128 payoutStart_,
   uint128 interval_,
   uint128 startTime_,
   uint128 endTime_
) external pure returns (uint256) {
    if (interval_ = 0) {
       return 0;
    }
    // 'startTime_' can't be less than 'payoutStart_'
    if (startTime_ < payoutStart_) {</pre>
        startTime_ = payoutStart_;
    }
    uint128 maxEndTime_ = _calculateMaxEndTime(payoutStart_, interval_,
initialAmount_, decreaseAmount_);
    if (endTime_ > maxEndTime_) {
        endTime_ = maxEndTime_;
    }
    // Return 0 when calculation 'startTime_' is bigger then
'endTime_' ...
   if (startTime_ >= endTime_) {
       return 0;
    // Calculate interval that less then 'interval_' range
    uint256 timePassedBefore_ = startTime_ - payoutStart_;
    if ((timePassedBefore_ / interval_) = ((endTime_ - payoutStart_)
        uint256 intervalsPassed_ = timePassedBefore_ / interval_;
        uint256 intervalFullReward_ = initialAmount_ - intervalsPassed_
* decreaseAmount_;
        return (intervalFullReward_ * (endTime_ - startTime_))
/ interval ;
   }
// ...
```



#### **Recommendations:**

 $Consider \ to \ update \ reward Pool Last Calculated Timestamp \ after \ the \ rewards \ early \ return \ check.$ 

Morpheus: Resolved with @406ad354f30...

#### [L-3] Migration will fail if the pool has no yield

SEVERITY: Low	IMPACT: Low
STATUS: Acknowledged	LIKELIHOOD: Low

#### **Target**

• DepositPool.sol#L152

#### **Description:**

The migration requires remainder\_ to be greater than 0, which can cause issues if the yield was just bridged / recently collected.

DepositPool.sol#L152

```
function
       migrate(uint256 rewardPoolIndex_) external onlyOwner {
       require(!isMigrationOver, "DS: the migration is over");
       if (totalDepositedInPublicPools = 0) {
            isMigrationOver = true;
            emit Migrated(rewardPoolIndex_);
            return;
        }
        IRewardPool rewardPool_
    = IRewardPool(IDistributor(distributor).rewardPool());
        rewardPool_.onlyExistedRewardPool(rewardPoolIndex_);
        rewardPool .onlyPublicRewardPool(rewardPoolIndex );
        // Transfer yield to prevent the reward loss
       uint256 remainder_ = IERC20(depositToken).balanceOf(address(this))
    totalDepositedInPublicPools;
>>>
        require(remainder_ > 0, "DS: yield for token is zero");
        IERC20(depositToken).transfer(distributor, remainder_);
        IDistributor(distributor).supply(rewardPoolIndex_,
    totalDepositedInPublicPools);
       isMigrationOver = true;
```



```
emit Migrated(rewardPoolIndex_);
}
```

#### **Recommendations:**

Remove the strict non-zero requirement for remainder\_, and transfer the yield to the distributor if it is greater than 0.

**Morpheus:** Yield is necessary so that stakers do not lose their rewards during the migration process. The solution is to plan the migration at least one day after collecting the yield using the Morpheus protocol.

**Zenith:** Acknowledged.



# [L-4] Self-referring is possible and can potentially be abused by users

```
SEVERITY: Low IMPACT: Low

STATUS: Acknowledged LIKELIHOOD: Low
```

#### **Target**

- DepositPool.sol#L403-L411
- DepositPool.sol#L758-L762

#### **Description:**

When users stake tokens in the DepositPool and provide a non-zero referrer\_, they receive an extra 1% multiplier, and the referrer\_ gets a deposit bonus, allowing them to receive a portion of the rewards distributed to the pool.

• ReferrerLib.sol#L11-L19

```
uint256 constant REFERRAL_MULTIPLIER = (PRECISION * 101) / 100; // 1%
    referral bonus

function
    getReferralMultiplier(address referrer_) external pure returns (uint256)
    {
        if (referrer_ = address(0)) {
            return PRECISION;
        }

        return REFERRAL_MULTIPLIER;
}
```

• ReferrerLib.sol#L30-L45

```
function applyReferrerTier(
   IReferrer.ReferrerData
       storage referrerData,
   IReferrer.ReferrerTier[]
       storage referrerTiers,
   uint256 oldAmount_,
```



```
uint256 newAmount_,
   uint256 currentPoolRate_
) external {
   uint256 newAmountStaked_
    = referrerData.amountStaked + newAmount_ - oldAmount_;
   uint256 multiplier_
    = _getReferrerMultiplier(referrerTiers, newAmountStaked_);
   uint256 newVirtualAmountStaked_ = (newAmountStaked_ * multiplier_)
   / PRECISION;
   referrerData.pendingRewards = getCurrentReferrerReward(referrerData,
   currentPoolRate_);
   referrerData.rate = currentPoolRate_;
   referrerData.amountStaked =
        newAmountStaked ;
   referrerData.virtualAmountStaked = newVirtualAmountStaked_;
}
```

This can be abused, users can set their own address as referrer\_ to gain an extra 1% multiplier and additional virtualAmountStaked. For example, if the referrer multiplier threshold is 5% and the user reaches it, they would receive an extra 6% simply by referring themselves, compared to another user who doesn't provide a referrer\_.

#### Recommendations:

Whitelist the referrer address, if the provided referrer is not whitelisted, revert the operation.

**Morpheus:** Outside the scope of the current task. Could be a suggestion for future updates.

Zenith: Acknowledged.



#### 4.5 Informational

A total of 2 informational findings were identified.

# [I-1] Calculation method can be improved to eliminate any chance of overflow

SEVERITY: Informational	IMPACT: Informational
STATUS: Resolved	LIKELIHOOD: Low

#### **Target**

• RewardPool.sol

#### **Description:**

In RewardPool.sol, there is a function getPeriodRewards which calls the getPeriodReward function of the LinearDistributionIntervalDecrease library.

It then makes a call to \_calculateFullPeriodReward. In the last line of that function there is a math calculation:

```
return initialReward_ * ip_ - (decreaseAmount_ * (ip_ * (ip_ - 1))) / 2;
```

We can see that  $(ip_* * (ip_- - 1))$  is multiplied by decreaseAmount\_ first before being divided by 2.

This is generally done to avoid rounding troubles **but** in this case we can guarantee that  $(ip_* * (ip_- - 1))$  is **always** an even number and hence can just be divided by 2 immediately.

• This is because ip and ip - 1 are consecutive numbers, hence either is definitely even.

This is ensure that as best as possible, overflow can be prevented even if decreaseAmount is a large number.

#### **Recommendations:**

Move the / 2 inside since it is guaranteed that (ip\_ \* (ip\_ - 1)) will be even.



```
return initialReward_ * ip_ - (decreaseAmount_ * (ip_ * (ip_ - 1))) / 2; return initialReward_ * ip_ - decreaseAmount_ * (ip_ * (ip_ - 1) / 2);
```

Morpheus: Resolved with @406ad354f300...



# [I-2] Missing claim for Aave incentives inside Distributor leads to unclaimed rewards

SEVERITY: Informational	IMPACT: Informational
STATUS: Resolved	LIKELIHOOD: Low

#### **Target**

Distributor.sol

#### **Description:**

Aave provides Incentives (e.g., incentives to the supply or borrow side of Aave liquidity pools, seeing here: https://aave.com/docs/primitives/incentives) to users who supply assets to the protocol. These incentives are typically distributed in the form of additional tokens (e.g., AAVE or other governance tokens) and can be claimed by users who interact with Aave's incentive mechanisms.

However, in the current implementation of the Distributor contract, there is no functionality to claim these incentives. This is a missing feature that could prevent claim the full benefits of supplying assets to Aave.

#### **Recommendations:**

Introduce a function that allows claiming rewards from Aave's RewardsController.

Morpheus: Resolved with @406ad354f300...

