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Prepared for Yield Basis

Audited by Panda HHK Block 7 fellows

Yield Basis DAO Update Security Review

Smart Contract Security Assessment



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Review Summary

1 Protocol Overview

Yield Basis is a protocol that features a new type of AMM that focuses on solving impermanent loss. The current review targets the DAO contracts of the protocol, including the governance token, along with the mechanism to vote, incentivize pools, and distribute rewards.

2 Audit Scope

This audit covers 6 smart contracts across 5 days of review.

├── CliffEscrow.vy ├── GaugeController. ├── LiquidityGauge.v ├── VestingEscrow.vy ├── VotingEscrow.vy └── YB.vy	contracts/dao				
├── LiquidityGauge.v ├── VestingEscrow.vy ├── VotingEscrow.vy	<u> </u>	CliffEscrow.vy			
├── VestingEscrow.vy ├── VotingEscrow.vy		<pre>GaugeController.vy</pre>			
├─ VotingEscrow.vy	<u> </u>	LiquidityGauge.vy			
,	<u> </u>	VestingEscrow.vy			
└─ YB.vy	<u> </u>	VotingEscrow.vy			
•	Щ_	YB.vy			

3 Risk Assessment Framework

3.1 Severity Classification

Severity	Description	Potential Impact
Critical	Immediate threat to user funds or protocol integrity	Direct loss of funds, protocol compromise
High	Significant security risk requiring urgent attention	Potential fund loss, major functionality disruption
Medium	Important issue that should be addressed	Limited fund risk, functionality concerns
Low	Minor issue with minimal impact	Best practice violations, minor inefficiencies
Undetermined	Findings whose impact could not be fully assessed within the time constraints of the engagement. These issues may range from low to critical severity, and although their exact consequences remain uncertain, they present a sufficient potential risk to warrant attention and remediation.	Varies based on actual severity
Gas	Findings that can improve the gas efficiency of the contracts.	Reduced transaction costs
Informational Code quality and best practice recommendations		Improved maintainability and readability



4 Key Findings

Breakdown of Finding Impacts

Impact Level	Count
Critical	1
High	1
Medium	4
Low	4
■ Informational	6

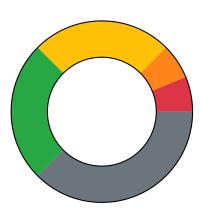


Figure 1: Distribution of security findings by impact level

5 Overall Assessment

Audit Overview

1 Project Information

Protocol Name: Yield Basis

Repository: https://github.com/yield-basis/yb-core/

Commit Hash: 74dcb46765081ef5170aa0cffcb8925f98cf84b6

Commit URL:

https://github.com/yield-basis/yb-core/commit/74dcb46765081ef5170aa0cffcb8925f98cf84b6

2 Audit Team

Panda, HHK, Block 7 fellows

3 Audit Resources

Code repositories and documentation



Category	Mark	Description
Access Control	Low	Critical vulnerability in VotingEscrow transfer functions allows position theft due to insufficient input validation.
Mathematics	Average	ERC4626 inflation attack vulnerability in Liquidity-Gauge, slope change accounting issues in position merging.
Complexity	Average	Complex interactions between multiple DAO contracts with various edge cases. Infinite lock mechanics, gauge weight adjustments, and position merging introduce significant complexity that led to several vulnerabilities.
Libraries	Good	Proper use of established libraries like snekmate for ERC20/ERC721 functionality. Clean separation of concerns with library usage.
Decentralization	Good	Well-structured DAO implementation with voting mechanisms, gauge controllers, and reward distribution. Users maintain control over their positions and voting power.
Code Stability	Average	Several stability issues, including merge reverts for infinite locks, transfer restrictions due to time calculations.
Documentation	Good	Code is well-documented with clear function purposes and parameter descriptions. Contract interfaces are properly defined.
Monitoring	Good	Adequate event emissions for most operations.
Testing and verification	Average	Various edge cases and attack vectors discovered during audit suggest test coverage could be improved, particularly around infinite lock scenarios and mathematical edge cases.

Table 1: Code Evaluation Matrix



4 Critical Findings

4.1 Insufficient input validation allows anyone to steal other user's voting escrow position

Attacker can sacrifice his own NFT and steal other user's position due to a missing check in VotingEscrow.transferFrom() and VotingEscrow.safeTransferFrom().

Technical Details

VotingEscrow.create_lock() mints user an NFT, the token_id is uint256 format of
user_address : user address is soulbound to user NFT id.
Inside the transfers functions the contract uses
erc721._is_approved_or_owner(msg.sender, token_id) for ownership check. The check
verifies if msg.sender is the owner of token_id, or if msg.sender has sufficient allowance
for token_id. But there is no check to verify token_id == uint256 format of owner.
Say max lock time is reached, and attacker calls
transferFrom(victim_address, attacker_address, attacker_token_id). The first
check will pass because attacker owns attacker_token_id. The second check will pass
because max lock time is reached. The internal function
self._merge_positions(owner, to) is then executed, victim's position is merged with
attacker's. Then erc721._burn(token_id) burns attacker's NFT. In short, attacker can
sacrifice his own NFT and steal victim's position. If attacker's position is tiny compared to
victim's position, this attack lets him sacrifice something small and grief something big.
To amplify the impact, consider this intricately designed attack:

- 1. Attack prepares two wallets A and B, mints NFT for each (call them NFT A and NFT B)
- 2. Wallets B approves wallet A max allowance (to bypass the snekmate erc721._is_approved_or_owner check)
- 3. Attacker calls

transferFrom(victim_address, wallet_A_address, NFT_B_token_id)

- 4. Victim's position is merged to wallet A's position
- 5. NFT B is burned but attacker can still withdraw all the asset via NFT A.

Impact

Attacker can steal any user's position.

Recommendation

Add validation to ensure the token_id corresponds to the owner parameter in both functions:

```
dexternal
def transferFrom(owner: address, to: address, token_id: uint256):
    assert token_id == convert(owner, uint256), "token_id_must_match_owner" # + ADD
    THIS
    assert erc721._is_approved_or_owner(msg.sender, token_id), "erc721:_caller_is_not_utoken_owner_or_approved"
    assert self._ve_transfer_allowed(owner, to), "Need_max_veLock"
    self._merge_positions(owner, to)
```



Developer Response

Fixed in 3af52777ac4a199a8e1b97f6a557ea06ab642a0d.

5 High Findings

5.1 LiquidityGauge is prone to inflation attacks such as the first share deposit one

The LiquidityGauge contract is vulnerable to an ERC4626 inflation attack that allows malicious actors to manipulate the share price and steal funds from subsequent depositors. The vulnerability stems from the contract's reliance on <code>asset.balanceOf(self)</code> for calculating total assets, which can be artificially inflated through direct token transfers.

Technical Details

The LiquidityGauge contract inherits the default _preview_deposit and _preview_redeem implementations from erc4626.vy, which depend on _total_assets(). This function simply returns the current balance of the asset token held by the contract (asset.balanceOf(self)). This design is problematic because it can be manipulated by an attacker transferring tokens directly to the contract outside of the intended deposit flow.

- The LiquidityGauge inherits _preview_deposit and _preview_redeem from erc4626.vy , both of which rely on _total_assets()
- _total_assets() calls asset.balanceOf(self), returning the total token balance of the contract
- Direct transfers to the contract (outside the intended deposit flow) inflate totalAssets, skewing the share minting calculation
- The ERC4626 share calculation formula shares = assets * totalSupply / totalAssets becomes vulnerable when totalAssets is artificially inflated

Proof of Concept

A malicious actor can exploit this vulnerability through the following steps:

1. **Initial Setup**: Transfer a large amount of tokens directly to the contract (bypassing the deposit function)



- 2. Minimal Deposit: Make a small deposit (e.g., 1 wei) to mint exactly 1 share
- 3. **Price Manipulation**: The inflated totalAssets value causes the share price to become extremely high
- 4. **Victim Impact**: Subsequent deposits from legitimate users mint zero shares due to rounding down in the share calculation
- 5. **Profit Extraction**: The attacker can later redeem their single share for a disproportionate amount of the total assets

```
def test inflation attack(gauge and lp token):
       gauge, lp token, reward token, YB token, gauge controller = gauge and lp token
2
       # Attacker (USER2) performs inflation attack
4
       with boa.env.prank(USER2):
           gauge = boa.load("contracts/dao/LiquidityGauge.vy", lp_token.address, YB_token,
   ADMIN, gauge controller)
           # Step 1: Transfer tokens directly to inflate totalAssets
7
           lp_token.transfer(gauge.address, 2500 * 10**18)
8
       with boa.env.prank(USER2):
10
           lp token.approve(gauge.address, 5000 * 10**18)
11
           # Step 2: Deposit minimal amount to mint 1 share
12
13
           gauge.deposit(2500*10**18+1, USER2)
14
           print("Attacker_shares:", gauge.balanceOf(USER2))
       # Victim (USER) attempts to deposit
16
       with boa.env.prank(USER):
17
           lp_token.approve(gauge.address, 10000 * 10**18)
18
           # Multiple deposits that mint zero shares due to inflated price
19
           gauge.deposit(2000*10**18, USER)
20
           gauge.deposit(2000*10**18, USER)
21
           gauge.deposit(2000*10**18, USER)
22
           gauge.deposit(2000*10**18, USER)
           gauge.deposit(2000*10**18, USER)
24
           print("Victim_shares:", gauge.balanceOf(USER))
       # Attacker redeems their single share
27
       with boa.env.prank(USER2):
28
           gauge.redeem(1, USER2, USER2)
29
           print("Attacker_LP_tokens_balance:", lp_token.balanceOf(USER2))
30
           print("Victim_LP_utokens_balance:", lp_token.balanceOf(USER))
print("LP_utokens_ustuck_uin_gauge:", lp_token.balanceOf(gauge.address))
31
```

Expected Output:

Impact

Malicious users can manipulate the share price to steal funds from legitimate depositors. Victims' deposits mint zero shares, locking their funds with no claim on withdrawals. While attackers cannot fully drain the contract due to the totalSupply + 1 denominator protection, they can still achieve significant profits by frontrunning deposits.



Recommendation

Implement a protected balance mechanism that maintains separate accounting for total deposited assets or mint dead shares and pre-deposit in the vault at deployment time.

Developer Response

Fixed in: c0d12d65ec3121e3505053f0675ba0370d3087d9

6 Medium Findings

6.1 Infinite-Lock Merge will always revert

Attempting to merge two "infinite" ve-NFT locks via transferFrom() or safeTransferFrom() will always reverts due to an out-of-range signed cast, making the core "infinite-lock transfer" feature unusable.

Technical Details

After calling $infinite_lock_toggle()$, the user lock's end is set to $max_value(uint256)$. Users can merge locks together by transferring them to another user, by calling transferFrom() or safeTransferFrom().

Inside the internal function <u>_merge_positions()</u> the logic is as follow:

```
slope = new_locked.amount // MAXTIME
bias = slope * convert(new_locked.end - block.timestamp, int256)
```

This is an issue for infinite locks, since it will result in $new_locked.end - now$ $2^2 - 1$, which exceeds the signed-256 range $(\pm 2^2 - 1)$. And since convert(uint256, int256) is range-checked, this always reverts.

Impact

Medium. Users cannot transfer or merge permanent locks. This core feature is non-functional.

Recommendation

Introduce a special-case before the cast to handle infinite locks explicitly. Something of the below order.

```
def _merge_positions(owner: address, to: address):
    ...
    new_locked.amount += locked.amount
    self.locked[to] = new_locked

if new_locked.end == max_value(uint256):
    # Special-case infinite lock: no decay
    slope = 0
    bias = convert(new_locked.amount, int256)

else:
    slope = new_locked.amount // MAXTIME
```



```
bias = slope * convert(new_locked.end - block.timestamp, int256)
...
```

This restores the intended "merge two infinite locks" functionality without causing an overflow revert

Developer Response

Fixed in 6a7b17e2b5bf50f9378a21748831b35c956afc0a

6.2 UMAXTIME is not a multiple of 7 days

Technical Details

The constant UMAXTIME is widely used throughout the code to represent the maximum possible lock duration. It is currently set to 4 * 365 days. However, this duration leaves a remainder of 4 days when divided by 7, which is suboptimal since lock end times are aligned to 7-day intervals. As a result, in the _ve_transfer_allowed() function, a user's lock is unlikely to exactly match max_time. Consequently, the conditions

owner_time // WEEK * WEEK == max_time and

to_time // WEEK * WEEK == max_time will evaluate to false, preventing transfers from being allowed.

Impact

Medium. Users will not be able to max lock and transfer their NFTs

Recommendation

Set UMAXTIME to a multiple of 7 days, such as UMAXTIME = 4 * 52 * 7 days which would by 4 years minus 4 days.

Developer Response

This is partially expected, the lock should always be less, however fixed the ve transfer allowed() check in 7215a47023e025a3941b29c6af5c844653bcc673.

6.3 Infinite locks won't be able to vote for gauges

The vote_for_gauge_weights() function uses slope to determine voting power which will be 0 for infinite locks.

Technical Details

When a user calls <code>infinite_lock_toggle()</code> it saves a checkpoint and sets the <code>slope</code> to 0. Later on when a user tries to vote for a gauge on the gauge controller by calling <code>vote_for_gauge_weights()</code> it will result in no power added to that gauge as the <code>slope</code> for the infinite lock is 0.



Impact

Medium. Users with infinite locks won't be able to vote, they can still toggle off the infinite lock to bypass the issue.

Recommendation

Modify the gauge voting to take into account infinite locks.

Developer Response

Fixed in: f46a125604c6f16d3522ddd4a40969dbfd3ff8e6

6.4 VotingEscrow _merge_positions Missing Checkpoint

The _merge_positions function in VotingEscrow bypasses the proper _checkpoint() mechanism, leading to incorrect slope change accounting. This results in permanent corruption of the global voting weight decay timeline and miscalculated voting weights for future periods.

7 Technical Details

The _merge_positions function bypasses proper slope change accounting by directly updating user_point_history instead of calling _checkpoint() for each user. When positions are merged, the function:

- Directly sets
 self.user_point_history[owner][user_epoch] = Point(bias=0, slope=0, ts=block.timesta)
 Directly sets
- self.user_point_history[to][user_epoch] = Point(bias=slope * convert(new_locked.end

This bypasses the slope_changes tracking logic in _checkpoint() that properly schedules
slope decreases at lock expiration times. The missing logic includes: - Removing old slope
changes: old_dslope += u_old.slope and

```
self.slope_changes[old_locked.end] = old_dslope - Adding new slope changes:
new_dslope -= u_new.slope and
self.slope_changes[new_locked.end] = new_dslope
```

Impact

Medium. The global voting weight decay timeline becomes corrupted.

Recommendation

Only allow merging to locks with similar duration.



Developer Response

Fixed in: 6a7b17e2b5bf50f9378a21748831b35c956afc0a

8 Low Findings

8.1 Disabled user's unvested tokens can't be reallocated

Technical Details

In VestingEscrow, when the owner disables a recipient during the vesting period, the unvested tokens allocated to that recipient become permanently locked in the contract.

When tokens are funded to a recipient via <code>fund()</code>, the <code>unallocated_supply</code> is decreased by the full allocation amount. If a recipient is later disabled, they can only claim tokens that have already vested. The remaining unvested tokens cannot be reallocated to other recipients because <code>unallocated_supply</code> was already reduced to account for the full original allocation, these unvested tokens become permanently inaccessible.

Impact

Low. Unvested tokens allocated to disabled recipients become permanently locked in the contract, preventing their reallocation to other recipients.

Recommendation

Add a function to reclaim unvested tokens from disabled recipients and withdraw them or return them to the unallocated_supply for reallocation.

Developer Response

8.2 Killed Gauges Continue to receive Emissions

Technical Details

The set killed() function marks a gauge address in is killed[gauge] = true.

The only place this <code>is_killed[gauge]</code> flag is consulted is in <code>vote_for_gauge_weights()</code>, preventing new votes on a killed gauge.

_checkpoint_gauge(), the sole place where fresh YB are minted and a gauge's weight is refreshed, never reads that flag. The first assert doesn't guard against the killed ones so the function proceeds for killed gauges exactly as for live ones.

Likewise, emit which is the public entry-point gauges use to pull their share, also omits any kill check. It calls <code>_checkpoint_gauge(msg.sender)</code> and pays out whatever weight the controller calculated.

Consequently, killed gauges continue to accrue emissions and allow users to claim tokens, bypassing the kill mechanism entirely.



Impact

Low. Killed gauges continue to draw from the inflation reserve for the full lifespan of any residual vote weight, diluting live gauges and miss-allocating YB.

If a malicious user or bribed voters pushes significant weight just before an admin kill, that gauge continues to receive emissions for months despite it being deprecated.

Recommendation

```
Guard Emissions in _checkpoint_gauge() . Before any emission logic add assert not self.is_killed[gauge], "Gauge is killed"

Prevent claims on killed Gauges. In emit(), likewise add extra validation assert not self.is_killed[msg.sender], "Gauge is killed"
```

Alternatively, in set_killed() immediately zero out that gauge's weight (and adjust the global sums) so even if any existing guard is bypassed, the killed gauge has no residual bias left to harvest.

Developer Response

Acknowledged, this is by design to be able to reverse the killing. Same logic is present in Curve.

8.3 VestingEscrow view functions incorrectly report vested amount for disabled addresses

The _total_vested_of function in VestingEscrow.vy does not account for the disabled_at timestamp, causing view functions like vestedOf, balanceOf, and lockedOf to return incorrect values for disabled addresses.

Technical Details

The VestingEscrow contract includes a disable mechanism where the admin can call toggle_disable(_recipient) to prevent an address from claiming tokens that have not yet vested at the time of disabling. This is implemented using the disabled at mapping:

```
1 @external
2 def toggle_disable(_recipient: address):
3  # ...
4  is_disabled: bool = self.disabled_at[_recipient] == 0
5  if is_disabled:
6    self.disabled_at[_recipient] = block.timestamp # Set disable timestamp
7  else:
8    self.disabled_at[_recipient] = 0 # Re-enable
```

The claim function correctly handles this by using the disabled_at timestamp when calculating vested amounts:

```
1 @external
2 def claim(addr: address = msg.sender):
3     t: uint256 = self.disabled_at[addr]
4     if t == 0:
5     t = block.timestamp
```



```
claimable: uint256 = self._total_vested_of(addr, t) - self.total_claimed[addr]
# ...
```

owever, the view functions <code>vestedOf</code>, <code>balanceOf</code>, and <code>lockedOf</code> all call <code>_total_vested_of</code> with the default <code>block.timestamp</code> parameter, ignoring the <code>disabled</code> at state:

```
1  @external
2  @view
3  def vestedOf(_recipient: address) -> uint256:
4    return self._total_vested_of(_recipient) # Uses block.timestamp by default

6  @external
7  @view
8  def balanceOf(_recipient: address) -> uint256:
9    return self._total_vested_of(_recipient) - self.total_claimed[_recipient] # Uses block.timestamp by default

11  @external
12  @view
13  def lockedOf(_recipient: address) -> uint256:
14    return self.initial_locked[_recipient] - self._total_vested_of(_recipient) # Uses block.timestamp by default
```

Impact

Low. This inconsistency leads to misleading information for disabled addresses.

Recommendation

Modify the view functions to account for the <code>disabled_at</code> timestamp when calculating vested amounts. The fix should ensure consistency with the <code>claim</code> function's behavior.

Developer Response

Fixed at: f563fb5

8.4 CliffEscrow can't use VotingEscrow infinite lock

Technical Details

VotingEscrow implements an infinite_lock_toggle() function that allows users to create or cancel ever-extending locks by setting the lock end time to max_value(uint256). However, CliffEscrow only exposes a subset of VotingEscrow methods (create_lock, increase_amount, increase_unlock_time, withdraw, and transferFrom) but does not include infinite_lock_toggle() in its interface or implementation.

The missing method prevents users who interact with VotingEscrow through CliffEscrow from accessing this functionality.



Impact

Low. Users interacting with VotingEscrow through CliffEscrow cannot benefit from the infinite lock feature.

Recommendation

Add the infinite_lock_toggle() method to CliffEscrow.

```
def infinite_lock_toggle():
    self._access()
    extcall VE.infinite_lock_toggle()
```

Developer Response

Fixed in 4378752a0bb17169648a8711598a18372a93de7f.

9 Gas Savings Findings

None.

10 Informational Findings

10.1 Transfer clearance checker should be enforced during deployment

The VotingEscrow contract allows veNFT transfers only when both sender and receiver hold max-duration locks and the sender has zero active votes. However, the zero-vote validation relies on an optional external checker that may not be set during deployment.

Technical Details

The _ve_transfer_allowed() function delegates zero-vote validation to an external TransferClearanceChecker:

When transfer_clearance_checker is unset (zero address), the zero-vote check is silently skipped, and only the max-lock condition is enforced.

Impact

Informational. If the deployer forgets to set the transfer clearance checker, the intended zero-vote requirement for transfers will not be enforced, potentially allowing transfers with active votes.



Recommendation

Consider requiring the transfer clearance checker to be set during deployment to ensure the intended transfer restrictions are always enforced. This can be done by:

- Adding the checker address as a constructor parameter
- Adding a check to ensure the checker is set before allowing transfers
- Or implementing the zero-vote validation directly in the contract rather than delegating to an external checker

Developer Response

Fixed in 2be7c58453159370c70dab6199250ddfe0b08a17.

10.2 Unused NewGaugeWeight Event in GaugeController

Technical Details

```
GaugeController defines a NewGaugeWeight event but never emits it. Neither _checkpoint_gauge() nor vote_for_gauge_weights() ever logs NewGaugeWeight. Observers cannot reconstruct historic weight adjustments except via indirect state reads.
```

Impact

Emit the logs to ensure greater on-chain transparency.

Recommendation

Emit NewGaugeWeight after the gauge weights are updated.

Developer Response

Removed the event. Fixed in 37f008a2edcea23b264fe5301ed9c370754740b0.

10.3 Missing Event for recover_token() in CliffEscrow

Technical Details

The recover_token() function in CliffEscrow allows the designated RECIPIENT to sweep any ERC-20 (except YB) out of the contract, but it emits no event to record this action. As a result, any token recovery is completely invisible on-chain.

Impact

Informational. Missing on-chain evidence makes it impossible for off-chain watchers or block explorers to detect token sweeps.



Recommendation

Emit an event indicating token recoveries log TokenRecovered(token=token.address, to=to, amount=amount).

Developer Response

Fixed in cf785ae276f308ba66e40fee8dc3da7bc97dff6c.

10.4 toggle_disable() function variables are named in the reversed order

Technical Details

Inside toggle_disable() when the address is disabled from claiming, is_disabled should be true; and in the reverse scenario (address enabled to claim), is disabled should be false. As of now, is disabled holds the boolean value for the currently "not disabled" address as true instead of false.

This does not impact the function to toggle, but the state described by the variable is the opposite of what it truly is.

Impact

Informational: Improve code readability and monitoring via event emissions.

Recommendation

Rename is_disabled to currently_enabled OR flip the booleans stored.

Developer Response

Fixed in 3b0dc8871f58d5d31aec09120a0208557b7294a3.

Spelling error in CliffEscrow.vy 10.5

Technical Details

The Cliff Escrow contract contains a spelling error in the init parameter declaration.

```
@deploy
```

```
def __init__(token: IERC20, unlock_time: uint256, ve: VotingEscrow, gc: GaugeController,
    RECIPIENT = recepient
    YB = token
    VE = ve
    GC = gc
    assert unlock time > block.timestamp
    UNLOCK TIME = unlock time
    extcall token.approve(ve.address, max value(uint256))
```



Incorrect spelling: recepient Correct spelling: recipient

Impact

Informational.

Recommendation

Rename the parameter.

Developer Response

Fixed.

```
10.6 Incorrect comment in YB.sol's __init__()
```

Technical Details

```
Inside __init__() there is a comment:
```

```
# * set minter(deployer, False)
```

Which may not work as set_minter() has a check

assert minter != msg.sender, "erc20: minter is owner address" which will make that call revert.

Impact

Informational.

Recommendation

Remove this comment and the line from the potential deploy script.

Developer Response

Fixed in 2cd7c1b51fbebee771a521307838f978a87e68fe.