

Advanced Manual Smart Contract Audit



Project: Criba Inu (Router)

Website: https://www.cribainu.com/



5 low-risk code issues found

Medium-Risk

0 medium-risk code issues found

High-Risk

0 high-risk code issues found

Contract Address

0x31d21Ec3722Cf628380b330ca01fc71A5F5e4c65

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

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Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

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Tokenomics

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Source Code

Coinsult was comissioned by Criba Inu (Router) to perform an audit based on the following smart contract:

https://cronoscan.com/address/0x31d21ec3722cf628380b330ca01fc71a5f5e4c65#code

Contract is setup as a router

Manual Code Review

In this audit report we will highlight all these issues:



5 low-risk code issues found



0 medium-risk code issues found



0 high-risk code issues found

The detailed report continues on the next page...

Avoid relying on block.timestamp

block.timestamp can be manipulated by miners.

```
modifier ensure(uint deadline) {
    require(deadline >= block.timestamp, 'RouterV2: EXPIRED');
    _;
}
```

Recommendation

Do not use block.timestamp, now or blockhash as a source of randomness

Exploit scenario

```
contract Game {
    uint reward_determining_number;
    function guessing() external{
        reward_determining_number = uint256(block.blockhash(10000)) % 10;
    }
}
```

Eve is a miner. Eve calls guessing and re-orders the block containing the transaction. As a result, Eve wins the game.

Missing events arithmetic

Detect missing events for critical arithmetic parameters.

Recommendation

Emit an event for critical parameter changes.

Exploit scenario

```
contract C {

modifier onlyAdmin {
   if (msg.sender != owner) throw;
   _;
}

function updateOwner(address newOwner) onlyAdmin external {
   owner = newOwner;
}
```

updateOwner() has no event, so it is difficult to track off-chain changes in the buy price.

Conformance to Solidity naming conventions

Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

IWETH(WETH).withdraw(amountETH);

Recommendation

Follow the Solidity naming convention.

Rule exceptions

- Allow constant variable name/symbol/decimals to be lowercase (ERC20).
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

Redundant Statements

Detect the usage of redundant statements that have no effect.

```
// refund dust eth, if any
if (msg.value > amountETH) TransferHelper.safeTransferETH(msg.sender, msg.value - amountETH);
(remove comments)
```

Recommendation

Remove redundant statements if they congest code but offer no value.

Exploit scenario

```
contract RedundantStatementsContract {
    constructor() public {
        uint; // Elementary Type Name
        bool; // Elementary Type Name
        RedundantStatementsContract; // Identifier
    }
    function test() public returns (uint) {
        uint; // Elementary Type Name
        assert; // Identifier
        test; // Identifier
        return 777;
    }
}
```

Each commented line references types/identifiers, but performs no action with them, so no code will be generated for such statements and they can be removed.

Costly operations inside a loop

Costly operations inside a loop might waste gas, so optimizations are justified.

```
function _swap(uint[] memory amounts, address[] memory path, address _to) internal virtual {
    for (uint i; i < path.length - 1; i++) {
        (address input, address output) = (path[i], path[i + 1]);
        (address token0,) = MainLibrary.sortTokens(input, output);
        uint amountOut = amounts[i + 1];
        (uint amountOut, uint amount1Out) = input == token0 ? (uint(0), amountOut) : (amountOut, uint address to = i &lt; path.length - 2 ? MainLibrary.pairFor(factory, output, path[i + 2]) : _totulous _tot
```

Recommendation

Use a local variable to hold the loop computation result.

Exploit scenario

```
contract CostlyOperationsInLoop{
   function bad() external{
      for (uint i=0; i < loop_count; i++){
          state_variable++;
      }
   }
}

function good() external{
   uint local_variable = state_variable;
   for (uint i=0; i < loop_count; i++){
      local_variable++;
    }
   state_variable = local_variable;
}
</pre>
```

Incrementing state_variable in a loop incurs a lot of gas because of expensive SSTOREs, which might lead to an out-of-gas.

Owner privileges

• No real owner privileges

Extra notes by the team

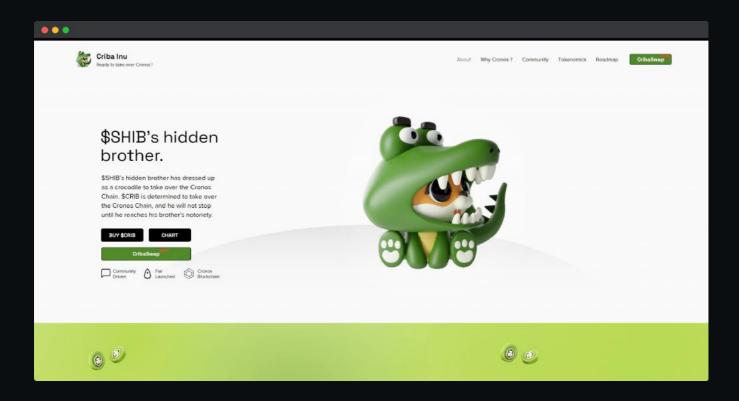
No notes

Contract Snapshot

```
contract RouterV2 is IUniswapV2Router02 {
using SafeMath for uint;
address public immutable override factory;
address public immutable override WETH;
modifier ensure(uint deadline) {
   require(deadline >= block.timestamp, 'RouterV2: EXPIRED');
constructor(address _factory, address _WETH) {
   factory = _factory;
   WETH = _WETH;
receive() external payable {
   assert(msg.sender == WETH); // only accept ETH via fallback from the WETH contract
function _addLiquidity(
   address tokenA,
   address tokenB,
   uint amountADesired,
   uint amountBDesired,
   uint amountAMin,
   uint amountBMin
```

Website Review

Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.



- Mobile Friendly
- Does not contain jQuery errors
- SSL Secured
- No major spelling errors

Project Overview

Not KYC verified by Coinsult

