

☰ HOH 社区

Deposit to win bonus

<https://github.com/nextuser/deposit-bonus>
wechat: growfat mail:nextuser#163.com

reporter: 科学减肥(lose_weight)



☰ HOH 社区

Spend \$2 on the lottery and win \$5 million

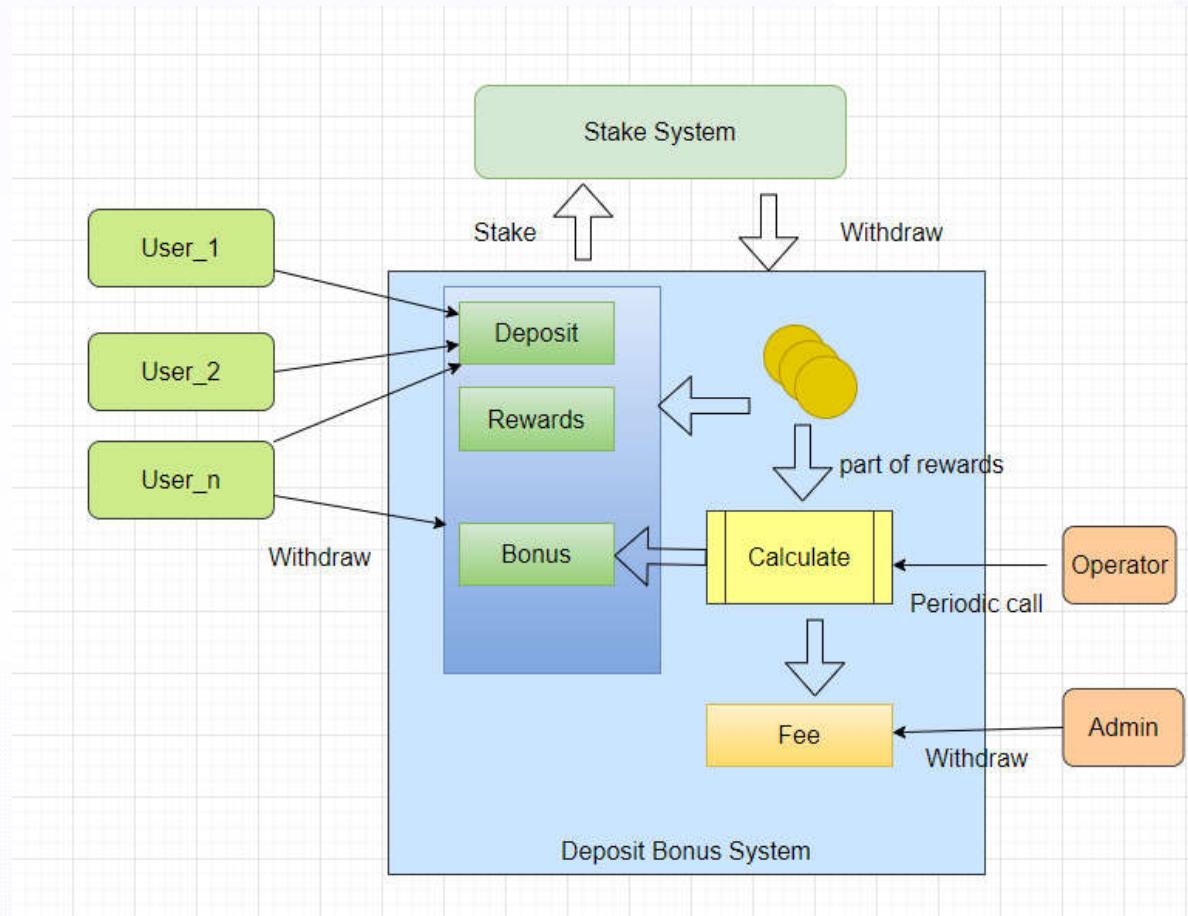
reporter: 科学减肥(lose_weight)



lottery

- It is illegal to run a lottery in China
- People hate to lose their principal

Stake the money to win the bonus



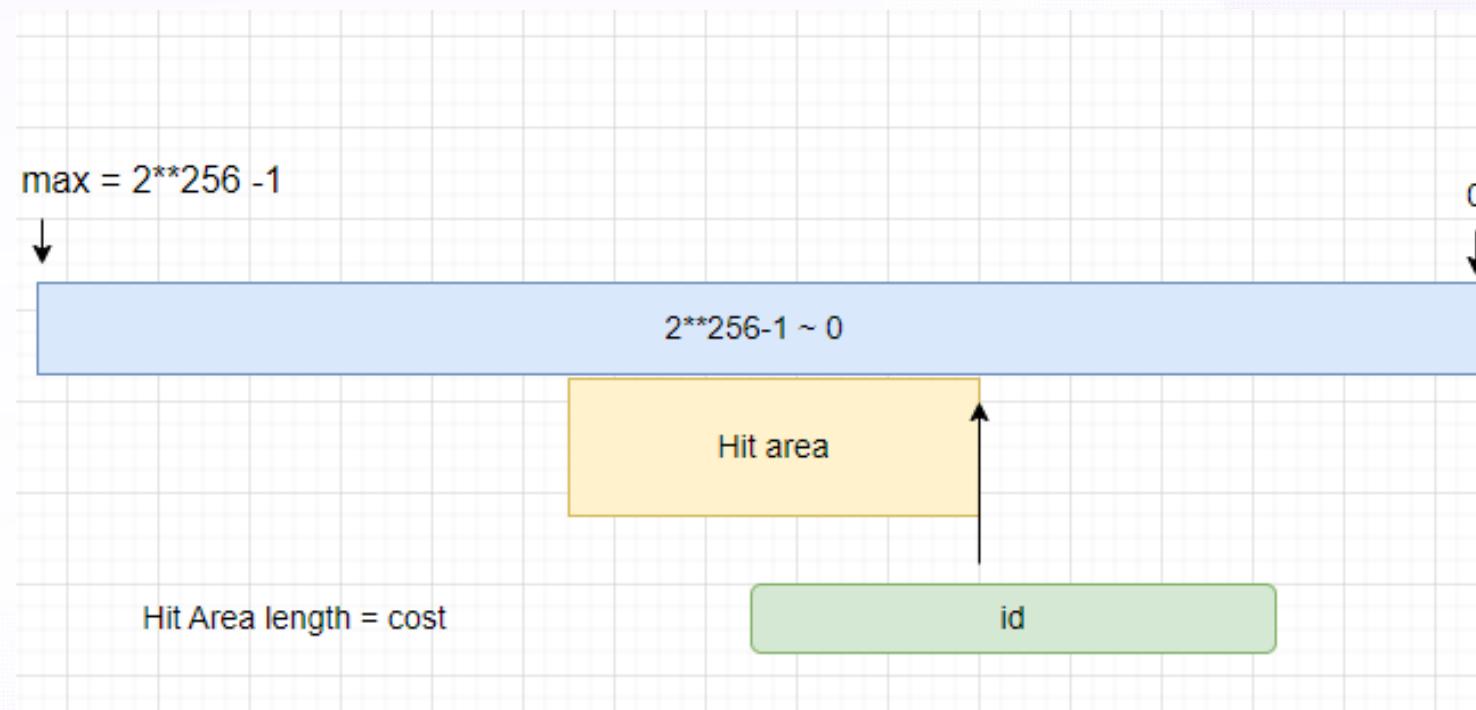
Pro

- No loss of principal
 - You still get interest on your money
- Winning attracts people to save money
 - The more people save, the bigger the bonus
- even very little money, you can win
- More money, more chance of winning

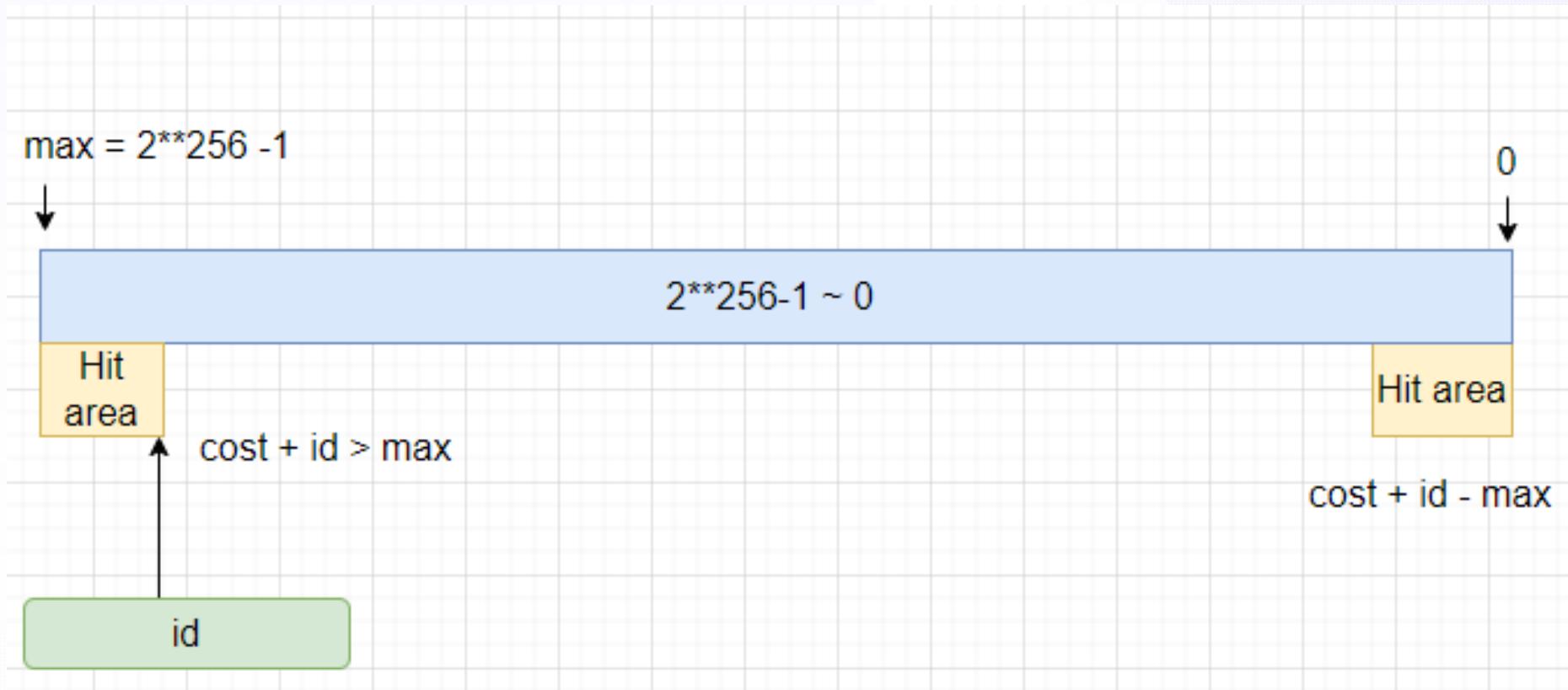
Significance of the project for the SUI ecosystem

- Encourage staking
 - It is conducive to the stability of the currency value of SUI
- Provide liquidity to other systems
 - In the future, you can consider providing your own pledge service
 - Incentivize retail deposits
- Use small things to great effect
- It is possible to hit the jackpot with very little money
 - You happen to be the only user in the winning zone
- The more people who save, the bigger the prize when you win

Each user address has a Hit area,



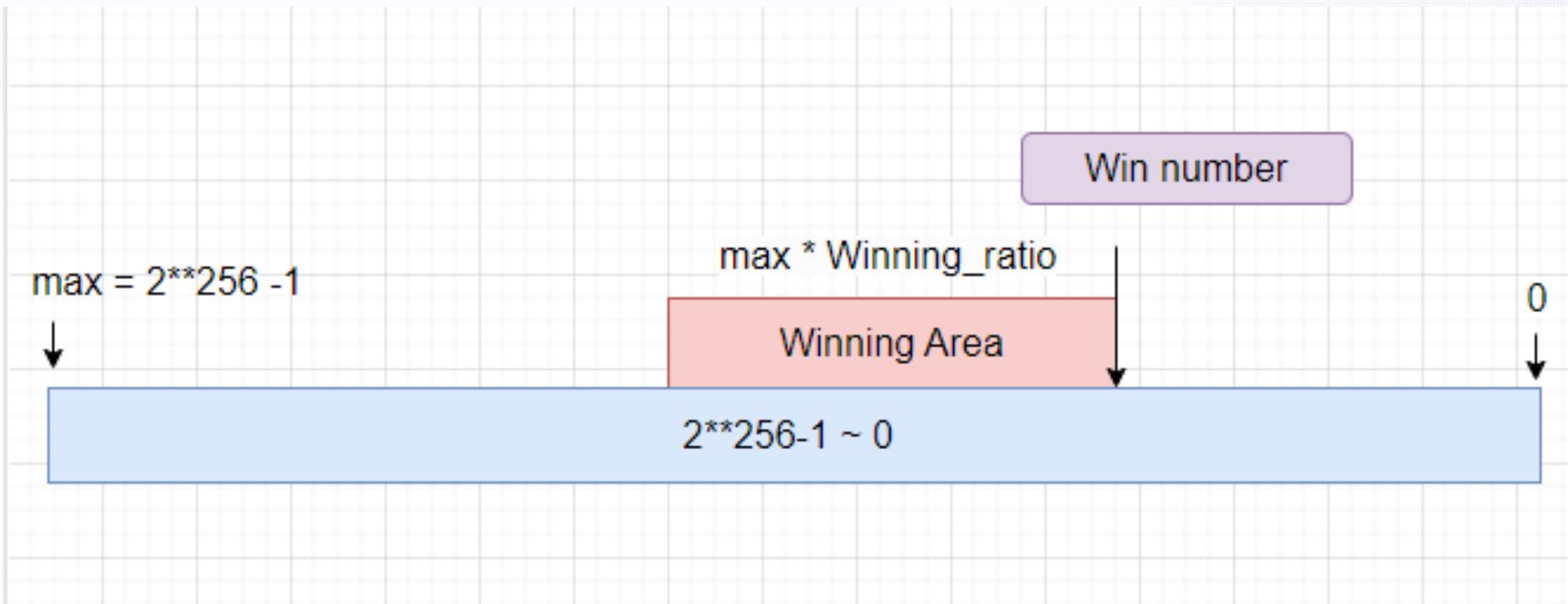
id too large



User hit area

- id generated by sha3_256, distributed randomly
 - now id Indicates the address of the user
 - In the future, consider the system to generate another 256bit id to avoid attacks
- Although the id + deposit base is used, the hit probability of each point should be the same because of the top and low end design.
- cost = stake_reward * bonus_percentage)

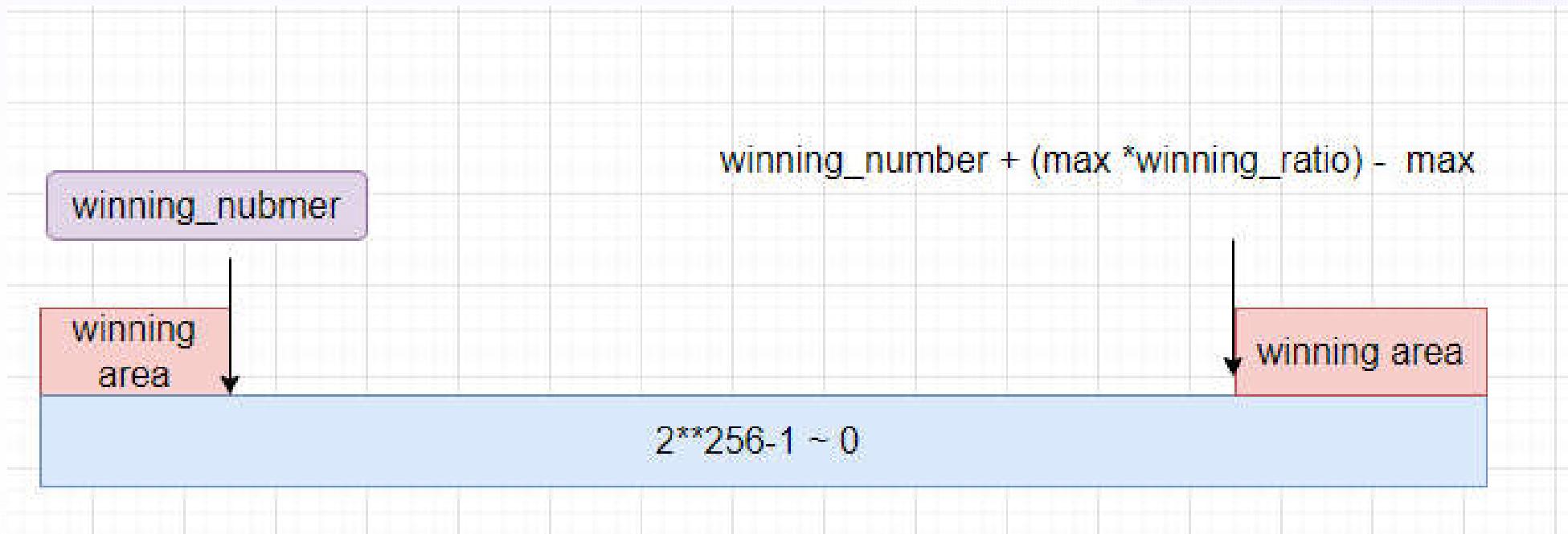
Winning Area



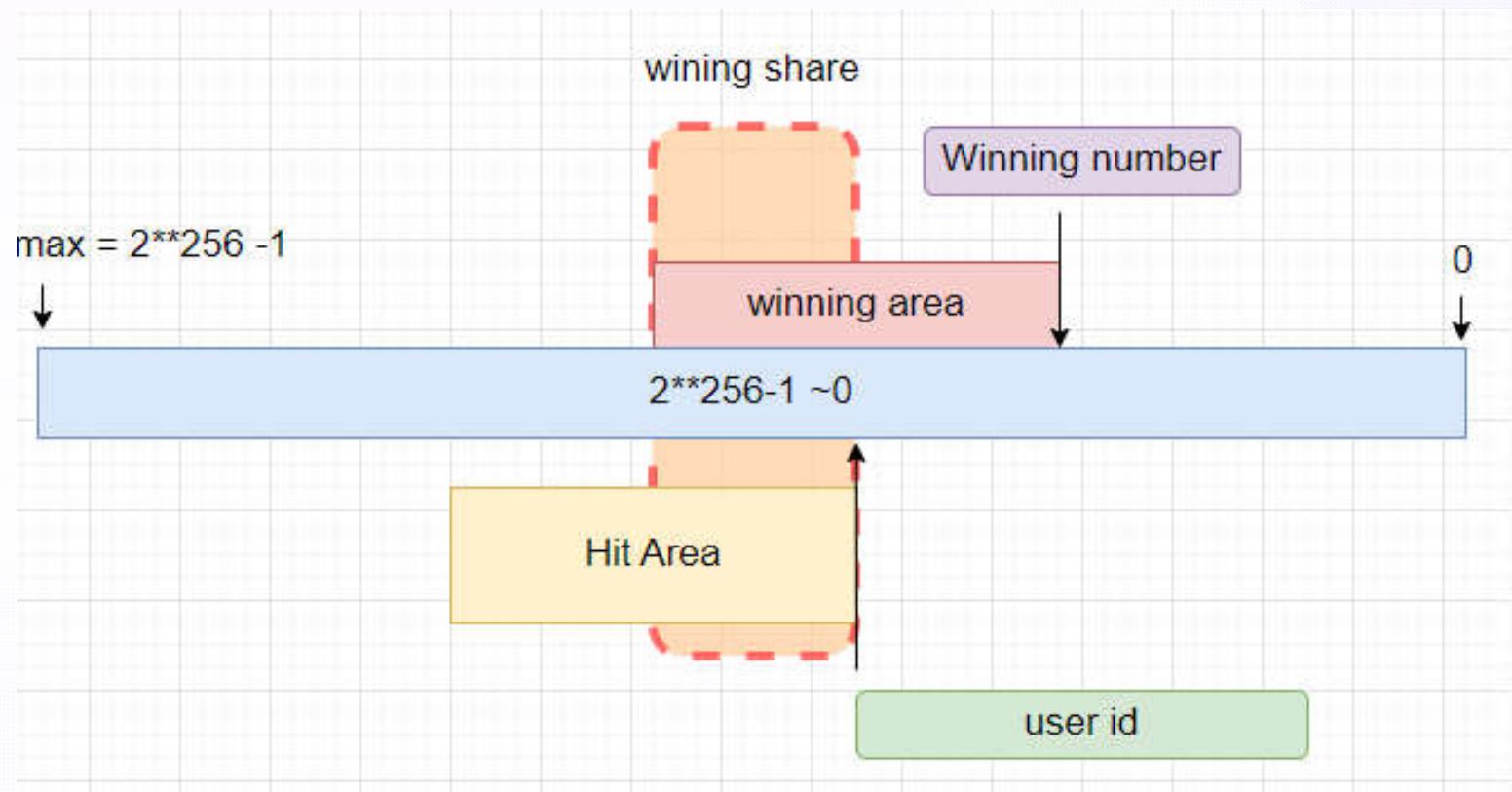
winning area

- winning number
 - a random 256bit hash value
- the length of wining area
 - $\text{max} * \text{winning_rate}$

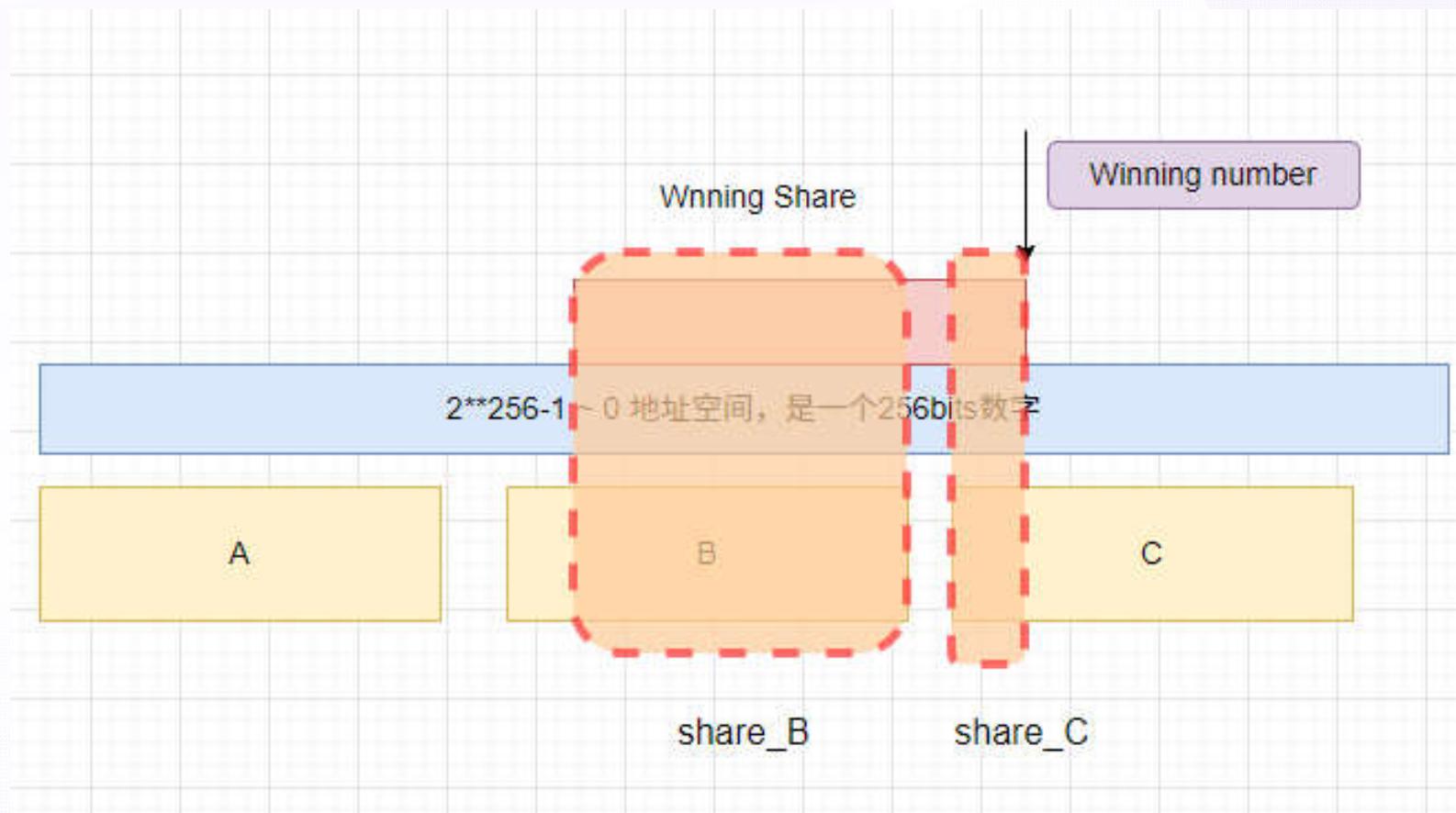
中奖区域--顶部



winning share : The length of the overlapping area



share the bonus



瓜分奖金

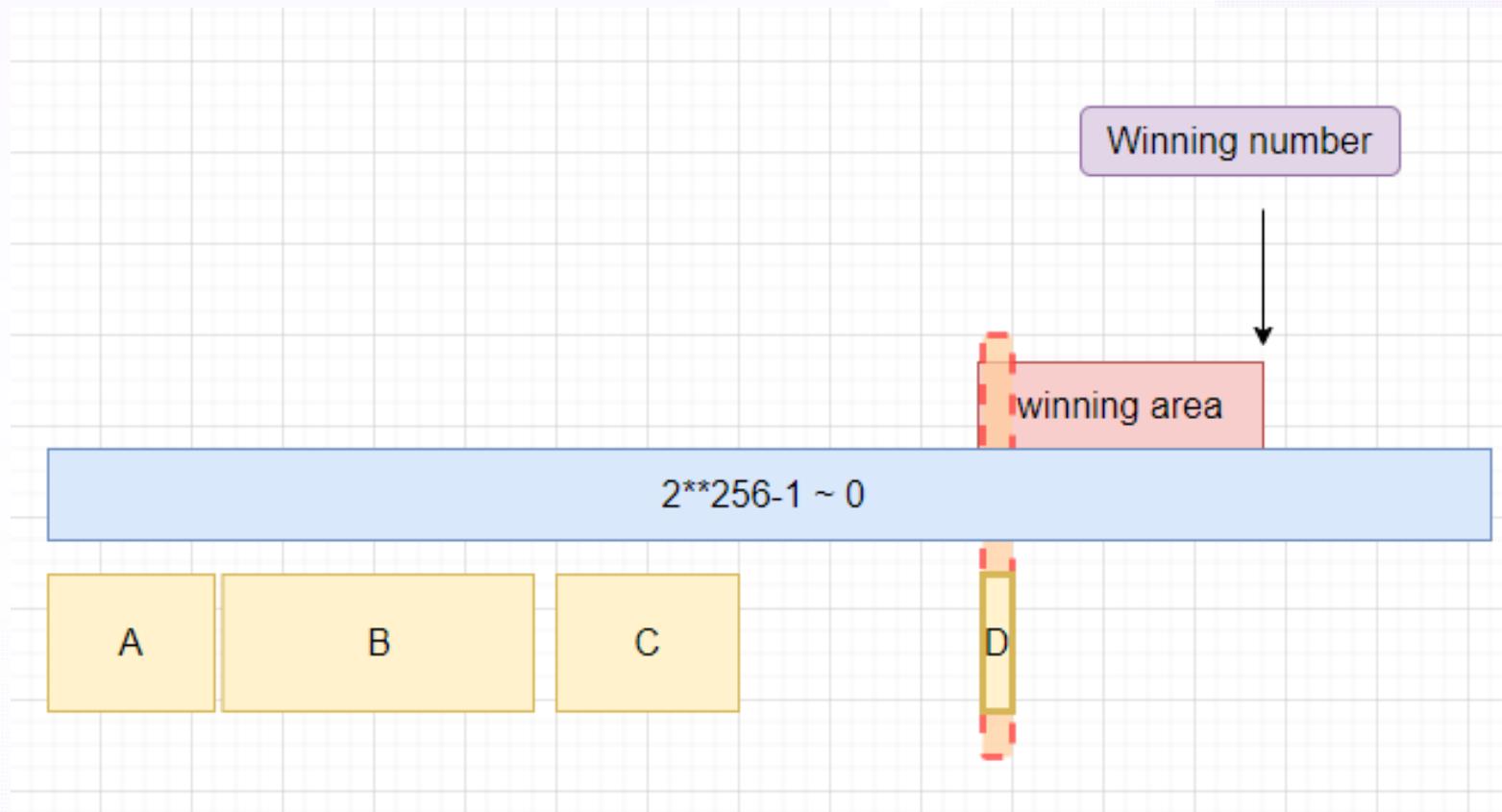
- Bonus_B

$\text{total_bonus} * \text{share_B}/(\text{share_B} + \text{share_C})$

- Bonus_C

$\text{total_bonus} * \text{share_C}/(\text{share_B} + \text{share_C})$

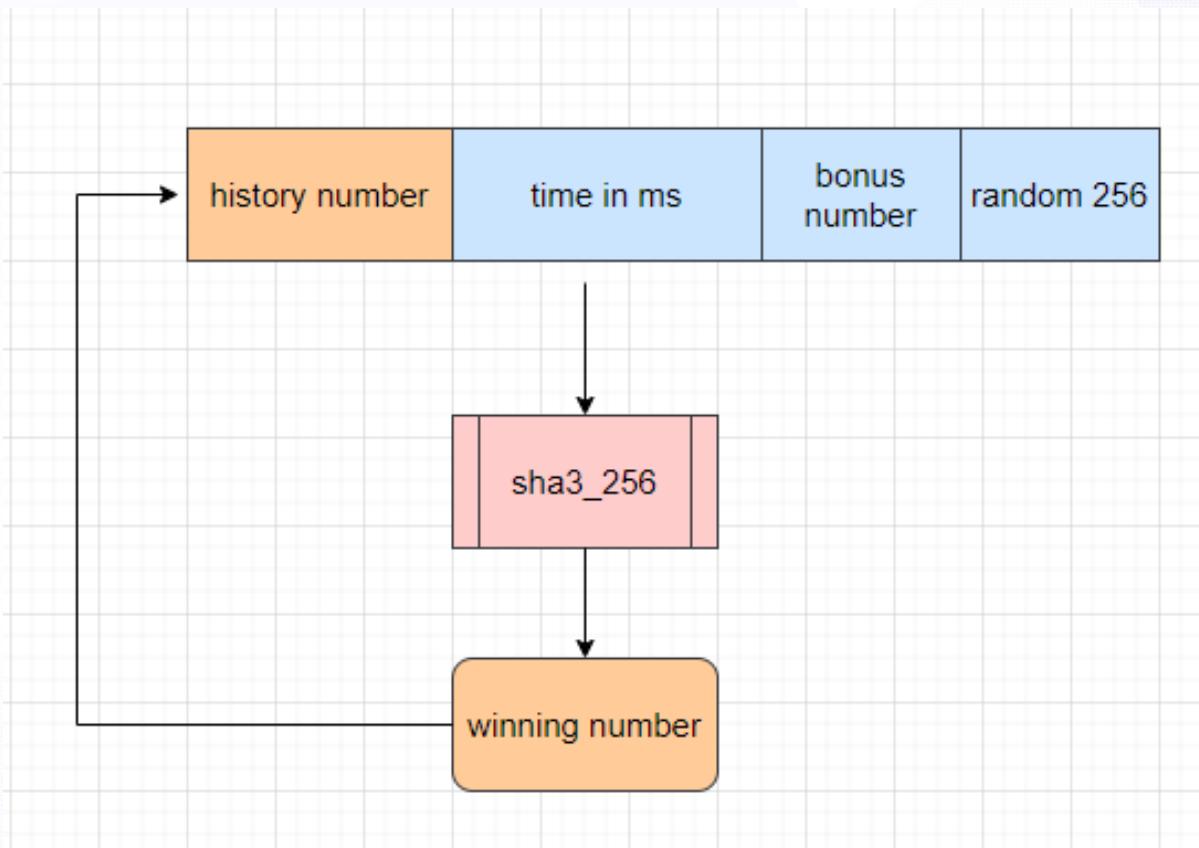
Hit the jackpot with a little money



算法特点总结

- Even a small amount of money can hit the jackpot
- The matching range of the hash algorithm is evenly distributed
- More money is easier to hit
- Multiple users hit the overlapping area of the hit, Users who spend more often win more of the lottery
No loss of principal

Winning number generation algorithm



Expenditure and income of the project side

- Outcome
 - gas fees calculated by regular drawing
- Income:
 - Deduct a percentage from the total bonus

Early promotion considerations

- The project side donates some bonus
 - Used to construct presentation data
 - Helps attract user deposits

Future

- Stake to Validator
 - Stable and reliable
 - interface simple
- Future
 - Explore other high interest pledge platforms

UI

The screenshot shows a web browser window with multiple tabs open, including Sui dA, NAVI, NAVI, nexus, Discord, Sui Explorer, and a new tab. The main content is a dark-themed application for managing Sui deposits and lottery participation.

存款利息抽奖 (Deposit Interest Lottery) - Address: 0xafe3...5fa2

输入存款金额 增加存款 增加存款

你的存款: 2 SUI
你的利息: 0FROST
你的中奖: 0FROST

2024-12-13

距离下次开奖还有23小时23分钟

地址	原始本金	现有资产	奖金
0x16781b5507cafe0150fe3265357cccd96ff0e9e22e8ef9373edd5e3b4a808884	20 sui	20.13 sui	0.4 sui
0x2253bc030313bb82ce9b42081654ec4a4cf428eaa927be7283b5fa672b54a7d4	20 sui	20.13 sui	0.12 sui
0x7cbe5e6596e23266dd5763dd89b4ab1195516908ecde8febfe96685c7cbe6432	40sui	40.26 sui	0.02 sui

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Participants

- lose weight (wechat: growfat, tg: lose_weight)
 - Design
 - contracts coding and test
 - integrate test
 - integrate ui and contract
- goofy (wechat: MrHu9702)
 - provide ui component