

StakeState - latest

Summary

The main state contract. To reduce size and complexity most logic is stored in companion contracts.

Parameters

Parameter	Description	Type	Default
imPaideiaDaoKey	Token ID of the dao config nft	Coll[Byte]	

Registers

Register	Description	Type
R4	AVLTree values with the following use: 0. Current stake state 1. Current participation state	Coll[AVLTree]
R5	Long values with the following use: 0. Next emission time in ms 1. Total governance tokens Staked 2. Amount of stakers 3. Amount of times voted 4. Amount of voting power used 5+. Profit accrued	Coll[Long]
R6	Long arrays holding the values of past snapshots: 0. Total governance tokens Staked 1. Amount of times voted 2. Amount of voting power used 3. Pure participation weight 4. Participation weight	Coll[Coll[Long]]
R7	List of tuples of avltree snapshots (stake state, participation)	Coll[(AVLTree, AVLTree)]
R8	Profit to be distributed in latest snapshot	Coll[Long]

Assets

Token name	amount
{DAO Name} Stake State	1
{DAO Governance token}	1+

Transactions

Transaction name	Transaction description
Any stake transaction	Almost all logic is handled in companion contracts so remaining logic is simple

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Context Variables

CV Index	Type	Description
0	Byte	Transaction type
1	Coll[Byte]	Proof for retrieving current DAO Config values

Config

Config key	Type	Description
im.paideia.contracts.staking.state	PaideiaContractSignature	Signature of the stake state contract
im.paideia.contracts.staking.*	PaideiaContractSignature	Signature of the companion contract

Inputs

Utxo type	Description
StakeState	Utxo belonging to this contract
Companion contract	The utxo holding the companion contract

Data Inputs

Utxo type	Description
Config	DAO Config

Outputs

Utxo type	Description
StakeState	Utxo belonging to this contract
Companion contract	The utxo holding the companion contract
Miner	Miner fee

Conditions

1. DAO Config input is correct
2. Companion contract correct and present
3. Stake state nft remaining in place
4. Staked governance tokens remaining in place