## Module sui::balance

A storable handler for Balances in general. Is used in the Coin module to allow balance operations and can be used to implement custom coins with <u>Supply</u> and <u>Balance</u> s.

A Supply of T. Used for minting and burning. Wrapped into a TreasuryCap in the Coin module.

Storable balance - an inner struct of a Coin type. Can be used to store coins which don't need the key ability.

For when trying to destroy a non-zero balance.

For when an overflow is happening on Supply operations.

For when trying to withdraw more than there is.

Sender is not @0x0 the system address.

System operation performed for a coin other than SUI

Get the amount stored in a Balance.

Get the **Supply** value.

Create a new supply for type T.

Increase supply by value and create a new Balance with this value.

Burn a Balance and decrease Supply.

Create a zero Balance for type T.

Join two balances together.

Split a **Balance** and take a sub balance from it.

Withdraw all balance. After this the remaining balance must be 0.

Destroy a zero **Balance**.

CAUTION: this function creates a <u>Balance</u> without increasing the supply. It should only be called by the epoch change system txn to create staking rewards, and nowhere else.

CAUTION: this function destroys a <u>Balance</u> without decreasing the supply. It should only be called by the epoch change system txn to destroy storage rebates, and nowhere else.

Destroy a **Supply** preventing any further minting and burning.

## Struct

A Supply of T. Used for minting and burning. Wrapped into a TreasuryCap in the Coin module. ```bash

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Storable balance - an inner struct of a Coin type. Can be used to store coins which don't need the key ability.

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System operation performed for a coin other than SUI
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```bash
Get the Supply value.
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Create a new supply for type T.
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Increase supply by <u>value</u> and create a new <u>Balance</u> with this value.
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Burn a Balance and decrease Supply.
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Create a zero Balance for type T.
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Withdraw all balance. After this the remaining balance must be 0.
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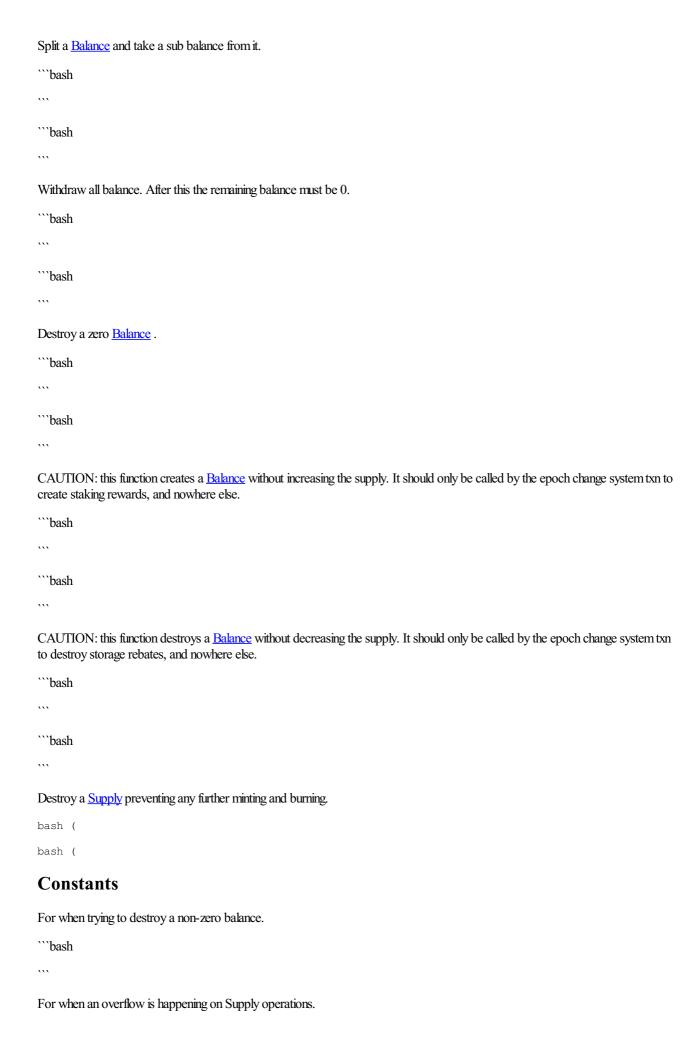
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CAUTION: this function destroys a Balance without decreasing the supply. It should only be called by the epoch change system txn to destroy storage rebates, and nowhere else. ```bash \*\*\* ```bash Destroy a Supply preventing any further minting and burning. bash ( bash ( **Function** Get the amount stored in a **Balance** . ```bash ```bash Get the Supply value. ```bash \*\*\* ```bash Create a new supply for type T. ```bash \*\*\* ```bash Increase supply by <u>value</u> and create a new <u>Balance</u> with this value. ```bash ```bash ,,,

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Function
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Join two balances together.

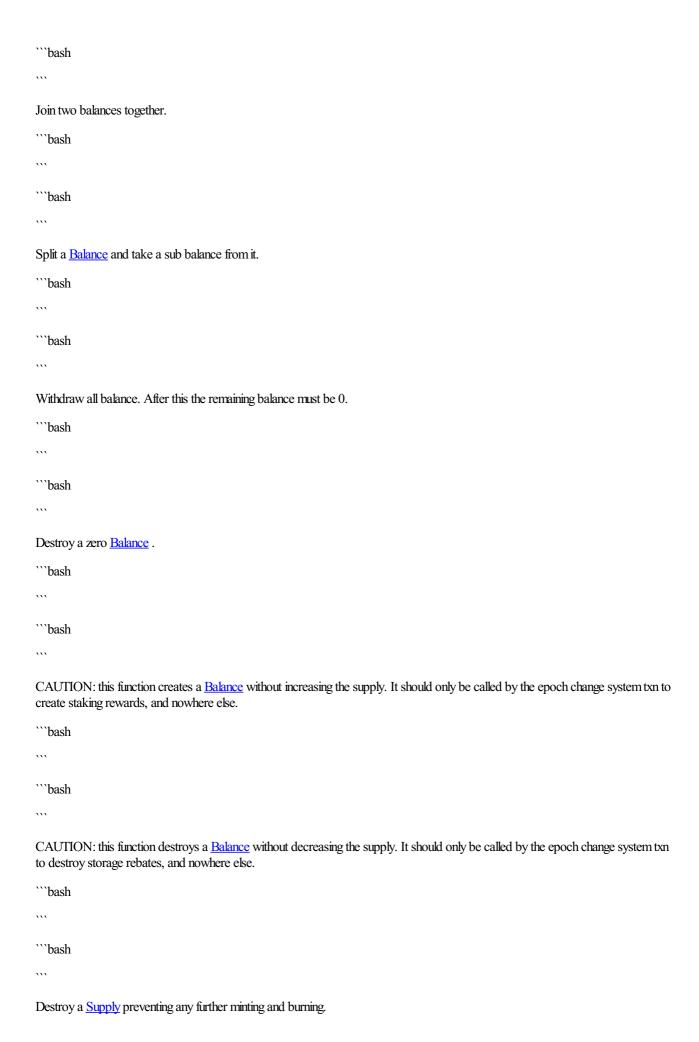
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## **Function**

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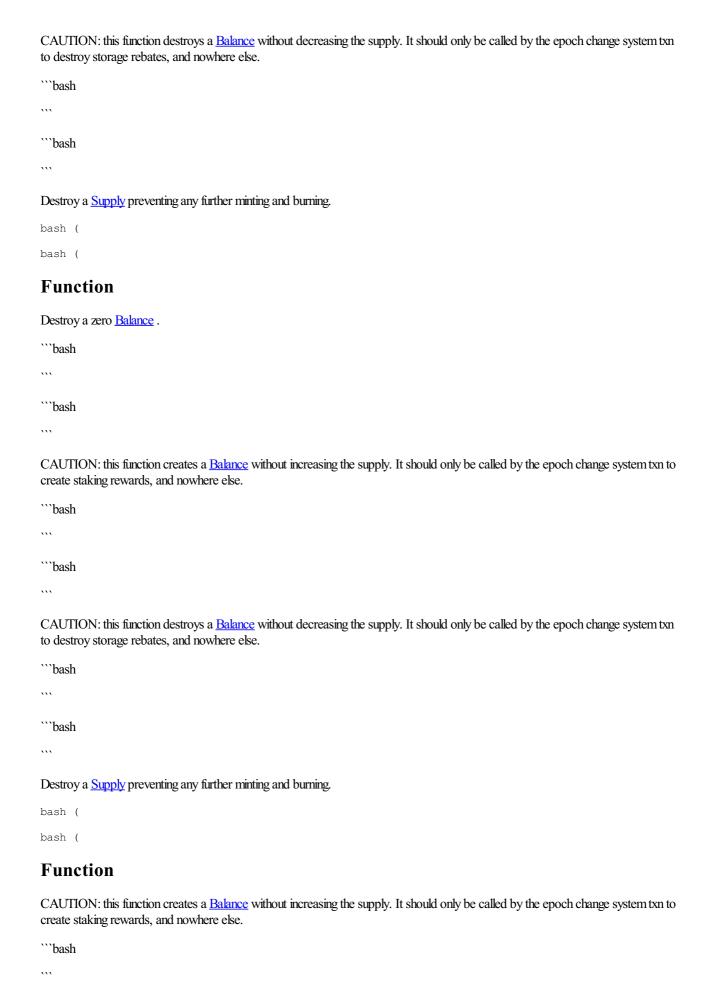
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