

AddressLib

Library for working with addresses encoded as uint256 values, which can include flags in the highest bits.type Address is uint256;

Functions

get

function

get (Address a)

internal

pure

returns

(address) Returns the address representation of a uint256

Parameters:

Name	Type	Description
a	Address	The uint256 value to convert to an address

Return values

Type	Description
address	The address representation of the provided uint256 value

getFlag

function

getFlag (Address a , uint256 flag)

internal

pure

returns

(bool) Checks if a given flag is set for the provided address

Parameters:

Name	Type	Description
a	Address	The address to check for the flag
flag	uint256	The flag to check for in the provided address

Return values

Type	Description
bool	True if the provided flag is set in the address, false otherwise

getUint32

function

getUint32 (Address a , uint256 offset)

internal

pure

returns

(uint32) Returns a uint32 value stored at a specific bit offset in the provided address

Parameters:

Name	Type	Description	a	Address	The address containing the uint32 value	offset uint256	The bit offset at which the uint32 value is stored
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Return values

Type	Description	uint32	The uint32 value stored in the address at the specified bit offset
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getUint64

function

getUint64 (Address a , uint256 offset)

internal

pure

returns

(uint64) Returns a uint64 value stored at a specific bit offset in the provided address

Parameters:

Name	Type	Description	a	Address	The address containing the uint64 value	offset uint256	The bit offset at which the uint64 value is stored
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Return values

Type	Description	uint64	The uint64 value stored in the address at the specified bit offset
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