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

Return values

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

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

Return values

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

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