

Module std::u256

Returns the bitwise not of the value. Each bit that is 1 becomes 0. Each bit that is 0 becomes 1.

Return the larger of x and y

Return the smaller of x and y

Return the absolute value of x - y

Calculate x / y, but round up the result.

Return the value of a base raised to a power

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

Maximum value for a [u256](#)

Loops applying f to each number from f to each number from f to each number from start to \$stop (exclusive)

Loops applying f to each number from f to each number from f to each number from start to \$stop (inclusive)

Loops applying f to each number from 0 to f to each number from 0 to f to each number from 0 to stop (exclusive)

Loops applying f to each number from 0 to f to each number from 0 to f to each number from 0 to stop (inclusive)

Function

Returns the bitwise not of the value. Each bit that is 1 becomes 0. Each bit that is 0 becomes 1.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Return the larger of x and y

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Return the smaller of x and y

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Return the absolute value of $x - y$

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Calculate x / y , but round up the result.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the value of a base raised to a power

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Return the larger of x and y

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the smaller of x and y

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the absolute value of x - y

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Calculate x / y, but round up the result.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the value of a base raised to a power

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ftoeachnumberfromftoeachnumberfromstart to $stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ftoeachnumberfromftoeachnumberfromstart to $stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying f to each number from 0 to f to each number from 0 to f to each number from 0 to stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying f to each number from 0 to f to each number from 0 to f to each number from 0 to stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Return the smaller of x and y

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the absolute value of x - y

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Calculate x / y, but round up the result.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the value of a base raised to a power

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
```bash
```

```
```
```

```
```bash
```

```
```
```

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Maximum value for a [u256](#)

```
```bash
```

```
```
```

```
```bash
```

```
```
```

Loops applying `for` to each number from `from` to each number from `from` to `stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `from` to each number from `from` to `stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `0` to `from` to each number from `0` to `from` to `stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `0` to `from` to each number from `0` to `from` to `stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Return the absolute value of `x - y`

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Calculate `x / y`, but round up the result.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the value of a base raised to a power

```
'''bash
```

```
'''
```



```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft oe a c h n u m b e r f r o m f` to each number from `ft oe a c h n u m b e r f r o m` start to `$stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft oe a c h n u m b e r f r o m f` to each number from `ft oe a c h n u m b e r f r o m` start to `$stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft oe a c h n u m b e r f r o m 0 t o f` to each number from `0` to `ft oe a c h n u m b e r f r o m 0 t o` stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft oe a c h n u m b e r f r o m 0 t o f` to each number from `0` to `ft oe a c h n u m b e r f r o m 0 t o` stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Calculate x / y , but round up the result.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Return the value of a base raised to a power

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft oe a c h n u m b e r f r o m f t` to each number from `ft oe a c h n u m b e r f r o m` start to `$stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ftoeachnumberfromftoeachnumberfromstart to $stop (inclusive)`

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ftoeachnumberfrom0 toftoeachnumberfrom0 toftoeachnumberfrom0 to stop (exclusive)`

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ftoeachnumberfrom0 toftoeachnumberfrom0 toftoeachnumberfrom0 to stop (inclusive)`

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Return the value of a base raised to a power

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft` to each number from 0 to `ft` to each number from 0 to `ft` of each number from 0 to stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `ft` to each number from 0 to `ft` to each number from 0 to `ft` of each number from 0 to stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Try to convert a [u256](#) to a [u8](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Function

Try to convert a [u256](#) to a [u16](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u32](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f t oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f t oe a c h n u m b e r f r o m start to \$stop (inclusive)

Maximum value for a [u256](#)

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Loops applying `for` to each number from `0` to `stop` (exclusive)

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Loops applying `for` to each number from `0` to `stop` (inclusive)

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Loops applying `for` to each number from `0` to `stop` (exclusive)

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Loops applying `for` to each number from `0` to `stop` (inclusive)

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Function

Try to convert a [u256](#) to a [u64](#) . Returns None if the value is too large.

```
```bash
```

```
...
```

```
```bash
```

```
...
```

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
```bash
```

```
...
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m ft oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m ft oe a c h n u m b e r f r o m start to \$stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o ft oe a c h n u m b e r f r o m 0 t o stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o ft oe a c h n u m b e r f r o m 0 t o stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

## Function

Try to convert a [u256](#) to a [u128](#) . Returns None if the value is too large.

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

## Function

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m f to each number from ft oe a c h n u m b e r f r o m start to \$stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying ft oe a c h n u m b e r f r o m 0 t o f to each number from 0 to ft oe a c h n u m b e r f r o m 0 t o stop (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

## Macro function

Maximum value for a [u256](#)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `m` to `n` to each number from `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `start` to `$stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `m` to `n` to each number from `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `start` to `$stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `0` to `n` to each number from `0` to `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `0` to `stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `0` to `n` to each number from `0` to `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `0` to `stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

## Macro function

Loops applying `for` to each number from `m` to `n` to each number from `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `start` to `$stop` (exclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `m` to `n` to each number from `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `start` to `$stop` (inclusive)

```
'''bash
```

```
'''
```

```
'''bash
```

```
'''
```

Loops applying `for` to each number from `0` to `n` to each number from `0` to `ft` to `oe` a `hn` `u` `mb` `er` `fr` `m` `0` to `stop` (exclusive)

```
'''bash
```

```
'''
```

...

```
```bash
```

```
```bash
```

...

...

...

...

...

...

...

...

...

```
``bash
```

...

## Macro function

Loops applying `ft` to each number from 0 to `ft` to each number from 0 to `ft` to each number from 0 to `stop` (inclusive)

```
```bash
```

...

```
```bash
```

...