

# ChainlinkCalculator

A helper contract for interactions with <https://docs.chain.link>

## Functions

### singlePrice

function

singlePrice ( contract

AggregatorV3Interface oracle , uint256 inverseAndSpread , uint256 amount )

external

returns

( uint256 ) Calculates price of token relative to oracle unit (ETH or USD)

#### Parameters:

Name Type Description oracle contract AggregatorV3Interface concatenated inverse flag and spread. Lowest 254 bits specify spread amount. Spread is scaled by 1e9, i.e. 101% = 1.01e9, 99% = 0.99e9. Highest bit is set when oracle price should be inverted, e.g. for DAI-ETH oracle, inverse=false means that we request DAI price in ETH and inverse=true means that we request ETH price in DAI inverseAndSpread uint256 amount uint256

#### Return Values:

Name Type Description Amount uint256 spread oracle price

### doublePrice

function

doublePrice ( contract

AggregatorV3Interface oracle1 , contract

AggregatorV3Interface oracle2 , uint256 spread , int256 decimalsScale , uint256 amount )

external

returns

( uint256 ) Calculates price of token A relative to token B. Note that order is important

#### Parameters:

Name Type Description oracle1 contract AggregatorV3Interface oracle2 contract AggregatorV3Interface spread uint256 decimalsScale int256 amount uint256

#### Return Values:

Name Type Description Result uint256 Token A relative price times amount [Edit this page](#) [Previous AmountCalculator](#) [Next ERC1155Proxy](#)