## multicall

## **Classes**

### **MultiCaller**

Util for executing multi calls against the MultiCallV2 contract

### **Properties**

Property Modifier Type Description address readonly string Address of multicall contract

```
Methods
```

```
getBlockNumberInput()
getBlockNumberInput ( ): CallInput < BigNumber
      Get the call input for the current block number
Returns
CallInput <BigNumber
Source
utils/multicall.ts:163
getCurrentBlockTimestampInput()
getCurrentBlockTimestampInput ( ): CallInput < BigNumber
      Get the call input for the current block timestamp
Returns
CallInput <BigNumber
Source
utils/multicall.ts:179
getTokenData()
getTokenData < T
     (erc20Addresses:
string[], options?:
T):
Promise < TokenInputOutput < T
     []
      Multicall for token properties. Will collect all the requested properies for each of the supplied token addresses.
```

#### Type parameters

Type parameter T extends undefined |TokenMultiInput

### **Parameters**

Parameter Type Description erc20Addresses string [] options ? T Defaults to just 'name'

```
Returns
```

```
Promise < TokenInputOutput < T
     []>
Source
utils/multicall.ts:261
multiCall()
multiCall < T , TRequireSuccess
     (params:
T, requireSuccess?: TRequireSuccess):
Promise < DecoderReturnType < T , TRequireSuccess
           Executes a multicall for the given parameters Return values are order the same as the inputs. If a call
           failed undefined is returned instead of the value.
To get better type inference when the individual calls are of different types create your inputs as a tuple and pass the tuple
in. The return type will be a tuple of the decoded return types. eg.
const inputs:
[ CallInput < Awaited < ReturnType < ERC20 [ 'functions' ] [ 'balanceOf' ]
           [0]
      , CallInput < Awaited < ReturnType < ERC20 [ 'functions' ] [ 'name' ]
           [0]
     ]
[ { targetAddr : token . address , encoder :
=> token . interface . encodeFunctionData ( 'balanceOf' ,
["]), decoder:
(returnData:
string)
=> token . interface . decodeFunctionResult ( 'balanceOf' , returnData ) [ 0 ] , } , { targetAddr : token . address , encoder :
()
=> token . interface . encodeFunctionData ( 'name' ) , decoder :
(returnData:
string)
=> token . interface . decodeFunctionResult ( 'name' , returnData ) [ 0 ] , } , ]
const res =
await
```

Type parameters

multiCaller . call (inputs)

Type parameter T extends CallInput <unknown

[] TRequireSuccess extends boolean

Parameters

Parameter Type Description params T requireSuccess ? TRequireSuccess Fail the whole call if any internal call fails

Returns

Promise <DecoderReturnType <T ,TRequireSuccess

Source

utils/multicall.ts:227

fromProvider()

static

fromProvider ( provider : Provider ) :

Promise < MultiCaller

Finds the correct multicall address for the given provider and instantiates a multicaller

Parameters

Parameter Type Description provider Provider

Returns

Promise < MultiCaller

Source

utils/multicall.ts:132

# Type Aliases

## CallInput

type

CallInput < T

: object ; Input to multicall aggregator

### Type parameters

Type parameter T

### Type declaration

 $\label{thm:member} \begin{tabular}{ll} Member\ Type\ Description\ decoder\ (returnData\ :string\ ) => T\ Function\ to\ decode\ the\ result\ of\ the\ call\ encoder\ () => string\ Function\ to\ produce\ encoded\ call\ data\ targetAddr\ string\ Address\ of\ the\ target\ contract\ to\ be\ called\ decode\ the\ target\ contract\ to\ the\ target\ contract\ the\ targe$ 

### Source

utils/multicall.ts:37 Edit this page Previous Lib Next Types