
Ethereum ABI Utils Documentation

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CHAPTER 1

Overview

This library provides low level utilities for ABI encoding and decoding.

Credit

This code was extracted from the `pyethereum` library authored by Vitalik Buterin.

Encoding

These functions are intended for encoding python values into representations that are suitable for interacting with the EVM.

- `eth_alarm.encode_single(type, value)`

This function encodes `value` in the ABI encoding for the provided `type`.

[illegible]

The **value** parameter is expected to be one of the recognized EVM types.

Note: This function cannot be used to encode array types such as `bytes32[]`.

- `eth_alarm.encode_abi(types, values)`

This function encodes `values` in the ABI encoding for the corresponding type provided by the `types` argument.

[illegible]

The **values** parameter is expected to be an iterable whose values are all one of the recognized EVM types.

Decoding

These functions are intended for decoding return values from the EVM.

- `eth_alarm.decode_single(type, data)`

This function tries to decode `data` into the python type that corresponds to the provided `type`. This function accepts both byte strings as well as their hexadecimal representation with or without the `0x` prefix.

[illegible]

The **value** parameter is expected to be one of the recognized EVM types.

Note: This function cannot be used to decode dynamic or array types such as `bytes32[]`.

- `eth_alarm.decode_abi(types, data)`

This function decodes `data` into the python type corresponding to the provided `types`. This function accepts both byte arrays as well as their hexadecimal representation with or without the `0x` prefix.

[illegible]

```
['a', 'b']
```

The **values** parameter is expected to be an iterable whose values are all one of the recognized EVM types.

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`