
eth-abi Documentation

Release 1.3.0

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This provides relatively low-level python utilities for encoding data using Ethereum ABI definitions.

1.4 Nested Dynamic Arrays

The `eth-abi` library supports the Solidity ABIv2 encoding format for nested dynamic arrays. This means that values for data types such as the following are legal and encodable/decodable: `int[][]`, `string[]`, `string[2]`, etc.

Warning: Though Solidity's ABIv2 has mostly been finalized, the specification is technically still in development and may change.

1.5 API

1.5.1 `eth_abi.abi` module

1.5.2 `eth_abi.constants` module

1.5.3 `eth_abi.decoding` module

1.5.4 `eth_abi.encoding` module

1.5.5 `eth_abi.exceptions` module

1.5.6 Module contents

1.6 Release Notes

1.6.1 v1.3.0

Released December 6, 2018

- Bugfixes
 - Resolved an issue that was preventing discovery of type hints.
- Misc
 - Updated `eth-typing` dependency version to `>=2.0.0, <3.0.0`.

1.6.2 v1.2.2

Released October 18, 2018

- Bugfixes
 - Expand `parsimonious` dependency from `v0.8.0` to `v0.8.*`

1.6.3 v1.2.1

Released October 16, 2018

- Bugfixes

- Was accidentally allowing eth-typing v2. Now it requires eth-typing v1 only.

1.6.4 v1.2.0

Released August 28, 2018

- New Features
 - Backported and added support for nested dynamic arrays in the Solidity version 2 ABI

1.6.5 v1.1.1

Released May 10, 2018

- Bugfixes
 - `is_encodable()` now returns `False` if a `Decimal` has too many digits to be encoded in the given `fixed<M>x<N>` type. (It was previously raising a `ValueError`)
 - Raise an `EncodingTypeError` instead of a `TypeError` when trying to encode a `float` into a `fixed<M>x<N>` type.

1.6.6 v1.1.0

Released May 8, 2018

- New Features
 - Added a Registry API (docs in progress) for looking up encoders by ABI type
 - Added support for types: tuple and fixedMxN
 - Added new `is_encodable` check for whether a value can be encoded with the given ABI type
- Bugfixes
 - Fix `RealDecoder` bug that allowed values other than 32 bytes
 - Fix bug that accepted `stringN` as a valid ABI type. Strings may not have a fixed length.
 - Stricter value checking when encoding a `Decimal` (Make sure it's not a NaN)
 - Fix typos in "missing property" exceptions
- Misc
 - Precompile regexes, for performance & clarity
 - Test fixups and switch to CircleCI
 - Readme improvements
 - Performance improvements
 - Drop Python 2 support cruft

1.6.7 v1.0.0

Released Feb 28, 2018

- Confirmed pypy3 compatibility
- Add support for eth-utils v1.0.0-beta2 and v1.0.1 stable
- Testing improvements

1.6.8 v1.0.0-beta.0

Released Feb 5, 2018

- Drop py2 support
- Add support for eth-utils v1-beta1

1.6.9 v0.5.0

Latest stable version

1.7 Indices and tables

- API Glossary
- modindex