npdb Documentation

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This is the official npdb documentation.

CHAPTER 1

Overview

npdb is an implementation of large disk-stored NumPy-compatible n-dimenstional arrays that may exceed available memory. npdb implements the core multi-dimensional array class `npdb.dbarray`, which supports persistent binary storage and distributed batch processed operations. `npdb.dbarray` supports a subset of the `numpy.ndarray` interface.

Currently, npdb supports the following subset of the NumPy interface:

- Basic indexing

npdb extends NumPy's capabilities with the folloiwng:

- Support for disk-stored arrays that exceed the size of memory
- Native parallelization of most methods for both speed and memory constraints

CHAPTER 2

Basics of npdb

In this section, you will learn...

CHAPTER 3

Reference Manual

This is the official npdb API reference manual. npdb supports a NumPy-like interface for parallelized operations on n-dimensional arrays on disk.

3.1 Code Index

- genindex

3.2 Reference

3.2.1 Multi-Dimensional Array (dbarray)

`npdb.dbarray` is the core array class of the npdb package. It implements an n-dimensional array stored on disk.

`npdb.dbarray`

CHAPTER 4

Installation Guide

You can install npdb using pip by running:

```
$ pip install npdb
```

If unittest is installed, you can then test npdb by running:

```
$ python -m unittest discover
```

CHAPTER 5

License

MIT License

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