# Time of creating database and parsing data:

|  |  |  |  |
| --- | --- | --- | --- |
| Database | All time | Parsing time | Creating time |
| **ZooDB** | 2 minutes 23 seconds | 1 minute 55 seconds | 28 seconds |
| **MongoDB** | 2 minutes 27 seconds | 2 minutes 20 seconds | 7 seconds |
| **BaseX** | 7 seconds | - | 7 seconds |

# Time of showing data in GUI:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Database | Publications | Proceeding | InProceeding | Person | Conference | Series | Publisher | ConfEdition |
| **ZooDB** | 1.6s | 0.9s | 0.5s | 0.3s | 0.5s | 0.2s | 0.2s | 0.1s |
| **MongoDB** | 2.7s | 0.9s | 1.1s | 1.2s | 0.6s | 0.4s | 0.2s | 0.4s |
| **BaseX** | 5.0s | 0.9s | 3s | 10s | 1.2s | 0.6s | 1s | 3.8s |

# ZooDB:

**Strengths:**

* Simple at aggregation
* The fastest at data showing
* Simple to add/update/delete because of objects
* The fastest at queries
* Using the least amount of memory?

**Weaknesses:**

* The slowest at adding data in database
* Not the easiest using data from DB (To get something and write it for users)

# MongoDB:

**Strengths:**

* Fast at creating and adding data
* Easy to get results of queries
* Fast in parsing the result of queries
* Fast and easy at add/update/delete functions

**Weaknesses:**

* The slowest at queries
* The slowest to parsing

# BaseX:

**Strengths:**

* The fastest at parsing and creating
* The fastest in queries where need to calculate (average, sum)

**Weaknesses:**

* The slowest in showing data in GUI
* Difficult to write queries for users