TangoDatabase: Status update

Thomas Braun

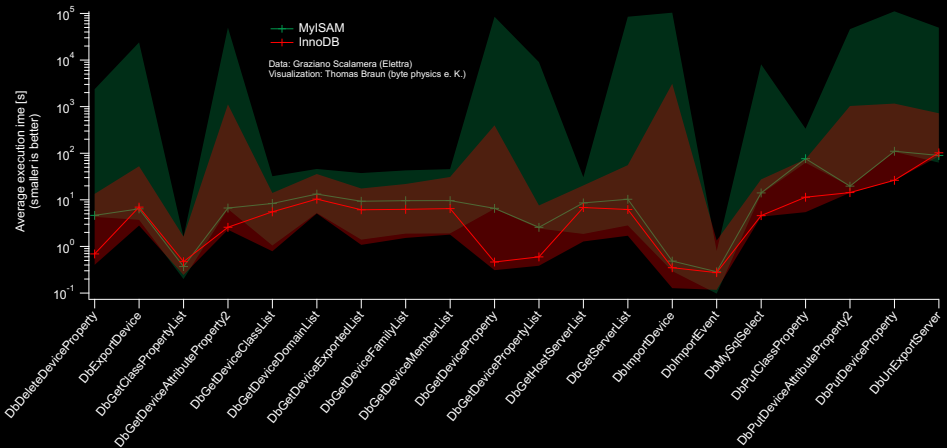byte physics e. K., Annaburg, Germany

27th June 2023

The past and present

Maintenance:

- ▶ Complete move to cmake (TSD)
- ▶ Make it compile on Windows, add basic CI
- ▶ Better compatibility with MacOSX (x64/M1)

Bugfixes and Features:

- ▶ Fix integer truncation on storing PIDs
- ▶ Avoid timeouts on database connections
- ▶ Change database engine to InnoDB

Average execution time [s] (smaller is better)

MyISAM
InnoDB

Data: Graziano Scalamera (Elettra)
Visualization: Thomas Braun (byte physics e. K.)

10^5
10^4
10^3
10^2
10^1
10^0
10^{-1}

DbDeleteDeviceProperty
DbExportDevice
DbGetClassPropertyList
DbGetDeviceAttributeProperty2
DbGetDeviceClassList
DbGetDeviceDomainList
DbGetDeviceExportedList
DbGetDeviceFamilyList
DbGetDeviceMemberList
DbGetDeviceProperty
DbGetDevicePropertyList
DbGetHostServerList
DbGetServerList
DbImportDevice
DbImportEvent
DbMySqlSelect
DbPutClassProperty
DbPutDeviceAttributeProperty2
DbPutDeviceProperty
DbUnExportServer

The Future

- ▶ Issue 51: Dropping support for MySQL
- ▶ Tango Tickets #69: Support for multiple database backends (MariaDB, PostgreSQL and SQLite)
- ▶ RFC-buggy: Remove naming violations with respect to the Tango RFC

Contributors[1]

1 Liu Jin
2 Thomas Juerges
3 Graziano Scalamera
20 Thomas Ives
70 Thomas Braun

Call for donations

DeviceServer and Database upgrade testing needs
real world data.
The larger and older the databases are, the better!

Please get in touch!

Questions ?