
PyTango 2.0.4

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PyTango 2: What is it?

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09/10/2005



- Python library wrapping most of the Tango classes used by client applications
- based on the Boost.python library
- wraps the Tango C++ library
- can be used in stand-alone programs
- can be used interactively from the Python prompt
- rapid development + interactivity for testing

PyTango 2: What's new?

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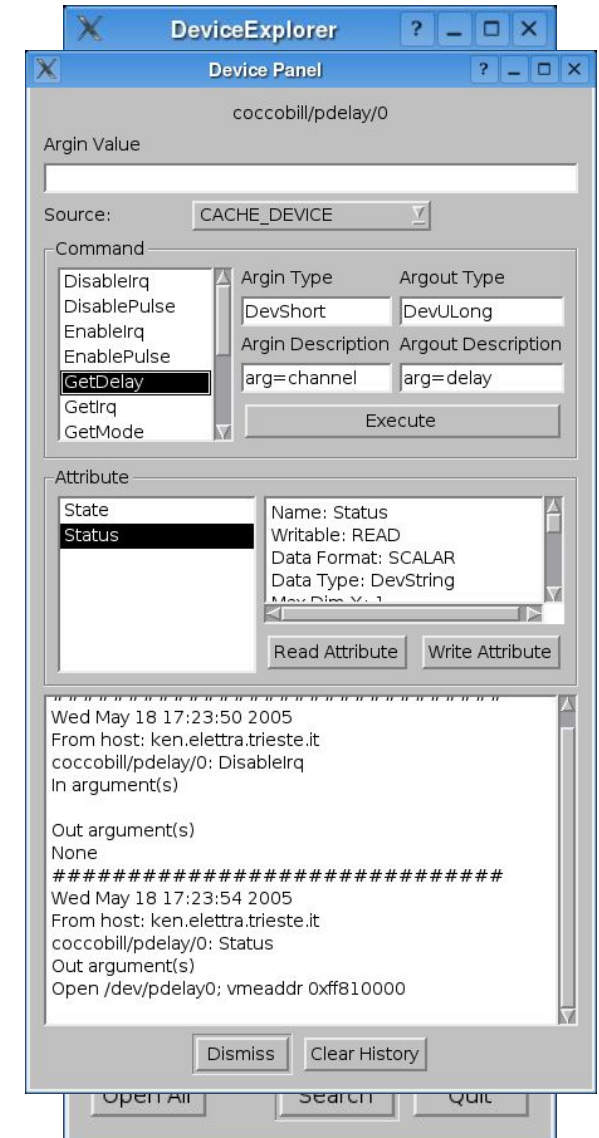
- ported to Tango v5.1 (testing on v5.3);
- event support;
- new data types;
- wrapped class `AttributeProxy` (still some problems with async reads);
- wrapped some methods of `ApiUtil`;
- `tequip`: a simple command-line test program;
- some bugfixes.

PyTango 2: PyTango + PyQt

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- PyTango uses: fast gui development with PyQt:
 - DeviceExplorer: search database for device servers running on a given host;
 - DevicePanel: generic panel (clone of jive's one);
 - Several specific panels for I/O boards



PyTango 2: PyTango + PyQt

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ADIOS ? - □ ×

ADIOS
running on coccobill

ON

Decimal

ADC **-1**

DAC **584**

+ 0 5 1 3 4

Out **0: High**

Out **1: Low**

In **2: Low**

In **3: Low**

Out **4: High**

Out **5: Low**

Out **6: Low**

Out **7: Low**

In **8: Low**

In **9: Low**

In **10: Low**

In **11: Low**

Status

```
Open /dev/adios0;
vmeaddr 0xffff8800
```

FUG 1 ? - □ ×

FUG tl/fug/2.1

ON

Voltage [V]

123.0

+ 00123

Current [A]

0.0

+00.000

Zero

Zero

Status

```
Connected to
serialdevice
coccobill/tip866/0
```

TIP600 ? - □ ×

TIP600 Digital Input
running on coccobill

ON

0: Low

1: Low

2: Low

3: Low

4: Low

5: Low

6: Low

7: Low

8: Low

9: Low

10: Low

11: Low

12: Low

13: Low

14: Low

15: Low

Status

```
Open /dev/tip6000;
vmeaddr 0xffff6000
```

TIP700 ? - □ ×

TIP700 Digital Output
running on coccobill

ON

0: Low

1: Low

2: Low

3: High

4: Low

5: Low

6: High

7: High

8: Low

9: Low

10: Low

11: Low

12: Low

13: Low

14: Low

15: Low

Status

```
Open /dev/tip7000;
vmeaddr 0xffff5000
```

PyTango 2: What's next?

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- wrap Group class;
- solve thread problems with events and Qt event loop (try latest Sip/PyQt version);
- test, test, test

PyTango 2:

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