



tuxmodule

Tuxedo module for Python

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This module provides access to the Tuxedo [ATMI](#) API for the Python programming language.

Features

- Write Tuxedo clients (both /WS and native) in Python (2.x and 3.2)
- Write Tuxedo servers
- Dynamic reload of python code for servers (optional)
- Support for STRING and FML buffer types. FML buffers are mapped to Python dictionaries with list elements.
- Full Tuxedo ATMI support (tpcall, tpacall, tpgetrply, tppost, tpsubscribe, tpnotify, tpsetunsol, tpdequeue, tpenqueue, tpbegin, tpabort, tpcommit, tpsectxt, tpinit, tpadvertise, userlog, tpsetctxt (multithreaded client for Tuxedo > Rel 7))

Build and Install

First, build the module:

- Check-out or download the source code from the Downloads or Source tab.
- Set TUXDIR (for example, export TUXDIR=/opt/bea/tuxedo8.1)
- Make sure that you use the desired version of python on the command line
- Run `python setup.py build --force` to compile the sources
- Run `python setup.py install` to install in `YOUR_PYTHON_LIB_DIR/site-packages/tuxedo`
- A package `tuxedo` will be built, with the shared objects `atmi.so` and `atmiws.so` in it.

To run the example / test:

- `cd test`
- The IPC key is set to 77662 and the WSH port is 7766. Adjust in `ubconfig` and `setenv` if you need other values.
- Source `setenv` (`./setenv`) - make sure you still have TUXDIR set!
- Run `make` to build TUXCONFIG, QFS and the executables for servers and clients.
- Run `tmboot -y` to start the Tuxedo application.
- Run `testclient.py` - this will test the ATMI interface.
- Run `send.py` to test a conversational service.
- Run `simpcl.py`, the equivalent of `$TUXDIR/apps/simpapp`.
- Run `tmshutdown -y` followed by `make clean` when you are done. This also cleans up Tuxedo's IPC resources.

Usage

Remote (/WS) and local client versions of the library will be built. Use the following for the (local) native client:

```
from tuxedo.atmi import *
```

and this one for the (network remote) /WS client:

```
from tuxedo.atmiws import *
```

"simpapp" written in Python

The Tuxedo installation contains a simple example application, "simpapp". This is the Python version of that application:

simpcl.py:

```
import tuxedo.atmi

print tuxedo.atmi.tpcall("TOUPPER", "Hello World")
```

simpserv.py:

```
from tuxedo.atmi import *
import string
import sys

class server:
    def init(self, arg):
        tpadvertise("TOUPPER")

    def TOUPPER(self, arg):
        userlog("Client-ID = %s" % (self.cltid))
        return string.upper(arg)

if __name__ == '__main__':
    tuxedo.atmi.mainloop(sys.argv, server(), None)
```

For information on how to use all the ATMI functions that are implemented by the module, have a look at the examples in the `testclient.py` and `pyserver.py` files in the test directory.

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