

Variables (access)

```
Set VsUtil s.v ari abl es[ '<n ame
>'] = v

Get v = VsUtil s.v ari abl es[ '<n
ame >']
```

Tip: use `<from VsUtils import variables as vs>` to access variables easily with `<vs['...']>`

Assertion

```
assert True(expr)

assert False(expr)

assert Equal(fisrt, second)

assert Not Equal(fisrt, second)

assert Alm ost Equal(fisrt, second, places=7)

assert Not Alm ost Equal(fisrt, second, places=7)

assert Raises(excClass, callObj, *args, **kwargs)

fail()
```

all assertions with additional parameters:
(..., msg=None, continueTest = True)
msg could use format string: "...% i" % vs[...]

Async assertion

```
assert Tru eIn ter val (expr)

assert Fal seI nte rva l(expr)

assert Alm ost Equ alI nte rva l(f is t, s ec, places)

assert Not Alm ost Equ alI nte rva l(f is t, s ec, places)

assert Tru eAt Lea stI nte rva l(expr)

assert AtL eas tOn ceT rue (expr)
```

all assertions with additional parameters:
(..., msg=None)

Async usage

```
async = ATLAsyncTest(self)

async.a ss ert...( la mbd -
a:vs[varname]...,msg)

async.a ss ert...
( 'vs[varname]...',msg)

async.a ss ert...f(nction,msg)

async.e xe cut e(t imeout)
```

Interact with Logbook

```
rtc.setLogLevel(level)

rtc.st art Log Ses -
sion('Sessio nName', 'comment')

rtc.lo gMe ssa ge( RTC.Lo -
gger.level, 'UserModule', 'msg')

...

rtc.st opL ogS ess ion()
```

Levels are: *Debug, Info, Warning, Error, Critical*

RTC services

Creation

```
rtc = RTC.RT CMa nager(ip [, port])
```

Connection

```
rtc.co nnect(ip [, port])
```

Configure if not done by mmi

```
rtc.co nfi gure(client name, dbPath, **kwargs)
```

Usercode control

```
rtc.[s tar t/s top ]Code(codeName)
```

Monitoring control

```
rtc.[s tar t/s top ]Mo nitor(taskName)

)
```

Archiver control

```
rtc.[s tar t/s top ]Re cor dset(rsName, e)
```

Manage errors

```
try:... except: System Error , detail
:
```

VS callback

```
class Notifier(Vs.Callback):

    def variab leD idC han -
ge( *args):

        print 'callback
called'

callback = notifier()

notif = VsUtil s.vc.

    reg ist erC all bac kVa -
lue Cha nge d(n ame ,ca llback)

...

del notif
```

Callback class should be created outside of *register* method.

Other callback are available.

Tips

```
import time

time.s lee p(s econds)
```

Testcase

```
class <TestCase
name>(ATLTestCase):

    def initia liz e(s elf):

        # no exception inside
this method

    def finali ze( self):

        # no exception inside
this method

    def execut e(s elf):

        # test steps here, see
Assertions
```

Test structure (tsdef)

TestSuite (tsdef)

Root TestGroup

TestGroup

TestCase

TestCase

Groups are optional

Running tests

```
$PYTHON- /opt/gc/lib/python
NPATH

/opt/vs/lib

python utest/ATL/ATLTestRunner.py

-c config.xml

-r result.xml

-v verbose in console

[--server] xmlrpc server
```

Test results

Passed tests within limits

Failed test not in limits

Aborted not completed (*exception*)

expr and *msg* could be lamda, string or function
expr should contains only one variable.
expr is evaluated one time to get the variable

Advanced tips

How to disable warning import msg

```
sys.modules['hooks'].current_importer.add_ok_module('xxx')
```

In custom assert, how to get correct file/line

Use *tb_skip* param in *self.result.addFailure*

How to interact with operator ?

Use *wxpython* binding

Variables (creation)

```
VsUtil s.v c.c rea teV ari abl e('<name>', Vs.<type>, [capacity=1])
```

```
VsUtil s.v c.d ele teV ari abl e('<name>')
```

Types are: *INTEGER*, *DOUBLE*, *OPAQUE*



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