

### Variables (access)

```
Set VsUtils.variables['<name>'] =
    v
```

```
Get v =
    VsUtils.variables['<name>']
```

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

### Assertion

```
assertTrue(expr)
```

```
assertFalse(expr)
```

```
assertEqual(fisrt, second)
```

```
assertNotEqual(fisrt, second)
```

```
assertAlmostEqual(fisrt, second,
    places=7)
```

```
assertNotAlmostEqual(fisrt, second,
    d, places=7)
```

```
assertRaises(excClass, callObj,
    *args, **kwargs)
```

```
fail()
```

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

### Async assertion

```
assertTrueInterval(expr)
```

```
assertFalseInterval(expr)
```

```
assertAlmostEqualInterval(first, se
    c, places)
```

```
assertNotAlmostEqualInterval(first
    , sec, places)
```

```
assertTrueAtLeastInterval(expr)
```

```
assertAtLeastOnceTrue(expr)
```

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

### Async usage

```
async = ATLASyncTest(self)
async.assert...
(lambda:vs[varname]...,msg)
async.assert...
('vs[varname]...',msg)
async.assert...(function,msg)
async.execute(timeout)
```

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['ihooks'].current_i
    mporter.addOkModule('xxx')
```

In custom assert, how to get correct file/line

Use `tbskip` param in `self.result.addFailure`

How to interact with operator ?

Use `wx` python binding

### Interact with Logbook

```
rtc.setLogLevel(level)
rtc.startLogSession('SessionName'
    , 'comment')
rtc.logMessage(RTC.Logger.level,
    'UserModule', 'msg')
...
rtc.stopLogSession()
```

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

### RTC services

Creation

```
rtc = RTC.RTCManager(ip [,
    port])
```

Connection

```
rtc.connect(ip [, port])
```

Configure if not done by mmi

```
rtc.configure(client name,
    dbPath)
```

Usercode control

```
rtc.[start/stop]Code(codeName)
```

Monitoring control

```
rtc.
    [start/stop]Monitor(taskName)
```

Archiver control

```
rtc.
    [start/stop]Recordset(rsName)
```

Manage errors

```
try:... except: SystemError ,
    detail:
```

### VS callback

```
class notifier(Vs.Callback):
    def variableDidChange(*args):
        print 'callback called'
callback = notifier()
notif = VsUtils.vc.
    registerCallbackValueChanged(nam
    e, callback)
...
del notif
```

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

Other callback are available.



By Vicnet  
[cheatography.com/vicnet/](https://cheatography.com/vicnet/)

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### Variables (creation)

```
VsUtils.vc.createVariable('<name>
', Vs.<type>, [capacity=1])
```

```
VsUtils.vc.deleteVariable('<name>
')
```

Types are: *INTEGER, DOUBLE, OPAQUE*

### Tips

```
import time
time.sleep(seconds)
```

### Testcase

```
class <TestCase name>(ATLTestCase):
    def initialize(self):
        # no exception inside this
method
    def finalize(self):
        # no exception inside this
method
    def execute(self):
        # test steps here, see
Assertions
```

### Test structure (tsdef)

TestSuite (*tsdef*)

Root *TestGroup*

*TestGroup*

TestCase

TestCase

Groups are optionals

### Running tests

```
$PYTHONPATH /opt/gc/lib/python
/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*)



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