Subject: Re: Unit Testing
Posted by Richard French on Thu, 04 Jan 2007 02:06:30 GMT

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Could you supply a reference for Unit Testing for those of us who are not
familiar with it?
Thanks,
Dick French

On 1/2/07 9:14 PM, in article
1167790448.349519.240060@h40g2000cwb.googlegroups.com, "Robbie"
<retsil@iinet.net.au> wrote:

> Hi,
>
> Are there any implementations of Unit Testing in IDL yet? I've put
> together a white paper for unit testing in IDL. It is fairly straight
> forward, and I've tried to make it easy to run tests of currently
> compiled code. However, there is no point implementing it if someone
> has a better idea of how to go about unit testing.
>
> http://www.barnett.id.au/idl/UnitRun.html
>
>
> Robbie
>
> -- ------------------
> --
>
> UnitRun is an adaptation of testing frameworks such as NUnit, JUnit and
> PyUnit. The final aim of this project is to fully support xUnit testing
> automation, including support for fixtures.
> Unit test procedures
> Unit tests are called using specially named test procedures.
> Expected procedure names:
>
>   * hashtable__test
>   * hashtable__test0
>   * hashtable__test1
>   * hashtable__test0000445
>
> A simple test case
>
> unitSearch
>
> pro hashtable__test1

>   obj = obj_new('hashtable')
>   obj -> Add, 'one', 1
>   unitAssert, obj -> isContained('one')
>   obj_destroy, obj
> end
>
> The unitSearch directive indicates that all subsequent test procedures
> should be included as unit tests. The unitAssert procedure reports the
> result of the test.
>
>   1. The unitAssert procedure reports the name of the test procedure
> (see HELP, CALLS=calls)
>   2. The unitAssert procedure reports <success> if the argument is
> greater than one
>   3. The unitAssert procedure reports <fail> in any other circumstance
> including unhandled execptions
>
> Running tests
>
> reslove_routine, 'hashtable__test1'
> unitRun
>
> The unitRun procedure looks for all specially named test procedures.
> All test procedures are re-resolved. Only procedures with the
> unitSearch directive will be included in unit test.
>
> unitRun, ['hashtable__test1','hashtable__test2']
>
> The unitRun procedure can be used to manually call a sequence of test
> procedures. In this case procedures are called directly without paying
> attention to unitSearch.
>
> unitRun, LOG_FILE='unitRun.log'
>
> The unitRun procedure can dump the test results to a log file instead
> of dumping the results to the IDL command line.
> Expected exceptions
>
> pro hashtable__test2
>   obj = obj_new('hashtable')
>   obj -> Add, 'one', 1
>   unitException, 'obj -> Add, 5, 6'
>   obj_destroy, obj
> end
>
> The unitException procedure executes a single IDL statement which is
> expected to result in an exception. The unitException does not
> currently distinguish between message blocks or names.

>
>   1. The unitException procedure reports <success> if an exeception
> was encountered
>   2. The unitException procedure reports <fail> if no exception was
> encountered
>