

Ticket #7296 (new Bugs)

Bug-fix and improvements to test utility functions

Opened **28 hours** agoLast modified **14 minutes** agoReported by: Marco Guazzone
<marco.guazzone@...>Owned by: **guwi17**Milestone: **To Be Determined**Component: **uBLAS**Version: **Boost 1.52.0**Severity: **Problem**

Keywords:

Cc:

Description

Three years ago I introduced in `libs/numeric/ublas/test/utils` a small set of utility functions for testing purpose.

Now, I corrected some bugs and added new and hopefully useful functions.

Furthermore, I fixed the license part.

I attach a patch file along with the whole include file.

I tested it against the following tests:

```
begin_end
num_columns
num_rows
size
test_complex_norms
```

and all works.

I had to skip the following tests since they fail (not for the new version of `utils.hpp`):

```
test_assignment
test_coordinate_matrix_sort
test_inplace_solve
```

Could you add it?

Attachments

- **utils.patch** (10.1 KB) - added by Marco Guazzone <marco.guazzone@...> **28 hours** ago.
Patch file for utils.hpp
- **utils.hpp** (8.6 KB) - added by Marco Guazzone <marco.guazzone@...> **28 hours** ago.
The new (i.e., already patched) utils.hpp
- **utils-new.patch** (12.5 KB) - added by Marco Guazzone <marco.guazzone@...> **23 hours** ago.
New patch file for utils.hpp
- **utils.2.hpp** (11.0 KB) - added by Marco Guazzone <marco.guazzone@...> **23 hours** ago.
The new (i.e., already patched by utils-new.patch) utils.hpp
- **utils-201208280915.patch** (12.5 KB) - added by Marco Guazzone <marco.guazzone@...> **13 hours** ago.
Patch file for utils.hpp to be applied against the version you currently find in boost trunk
- **utils_UBLA_UBLAS-201208280915.patch** (1.2 KB) - added by Marco Guazzone <marco.guazzone@...> **13 hours** ago.

Patch file for `utils.hpp` to be applied against the version of `utils.hpp` patched with `utils-new.patch` (i.e., the one named `utils.2.hpp`)

- **utils.3.hpp** (11.0 KB) - added by Marco Guazzone <marco.guazzone@...> 13 hours ago.
The new (i.e., already patched by `utils-201208280915.patch`) `utils.hpp` file.
- **utils-fix_complex-201208281922.patch** (7.9 KB) - added by Marco Guazzone <marco.guazzone@...> 2 minutes ago.
Patch file for `utils.hpp` to make it works with complex numbers. To be applied to the version of `utils.hpp` in the current boost trunk.
- **utils.4.hpp** (14.3 KB) - added by Marco Guazzone <marco.guazzone@...> 73 seconds ago.
The new `utils.hpp` file that you should obtain after applying the `utils-fix_complex-201208281922.patch` patch.
- **test_ticket7296.cpp** (8.1 KB) - added by Marco Guazzone <marco.guazzone@...> 12 seconds ago.
Test case for `utils.hpp`. It also shows that now `utils.hpp` works with complex value types.

Change History

Changed 28 hours ago by Marco Guazzone <marco.guazzone@...>

- **attachment** *utils.patch* added

Patch file for `utils.hpp`

Changed 28 hours ago by Marco Guazzone <marco.guazzone@...>

- **attachment** *utils.hpp* added

The new (i.e., already patched) `utils.hpp`

Changed 23 hours ago by Marco Guazzone <marco.guazzone@...>

comment:1

The previously attached patch contained simpler macros but some output messages was less informative (for the user). Now, with the new attached patch `utils-new.patch`, those output messages are again informative.

Sorry for the inconvenience.

Changed 23 hours ago by Marco Guazzone <marco.guazzone@...>

- **attachment** *utils-new.patch* added

New patch file for `utils.hpp`

Changed 23 hours ago by Marco Guazzone <marco.guazzone@...>

- **attachment** *utils.2.hpp* added

The new (i.e., already patched by `utils-new.patch`) `utils.hpp`

Changed 22 hours ago by guwi17

comment:2

(In [\[80267\]](#)) `boost/numeric/ublas/triangular.hpp` - applied patch, see [#4024](#) `libs/numeric/ublas/test/test_inplace_solve.cpp` - fixed includes

`libs/numeric/ublas/test/utils.hpp` - applied patch (after `s/BOOST_UBLA_TEST/BOOST_UBLAS_TEST/g`), see [#7296](#)

Changed 13 hours ago by Marco Guazzone <marco.guazzone@...>

comment:3

The previous patch file `utils-new.patch` contained bad macro names: `BOOST_UBLA_TEST_CHECK_EQ` and `BOOST_UBLA_TEST_CHECK_EQUAL`. Specifically, `UBLA_` should be `UBLAS_`. The new attached patch fix this.

I attach two patches:

- `utils-201208280915.patch` is the patch file to be used if applied against the original (unpatched) `utils.hpp` (i.e., the one you find in the actual boost trunk).
- `utils-201208280915.patch` is the patch file to be used if applied against the patched `utils.hpp` (i.e., the ones named `utils.2.hpp` in the above attachments).

As before, I also attach the new (patched) version of `utils.hpp`.

Again, sorry for this inconvenience, and thanks to *guwi17* for pointing it out.

Changed 13 hours ago by Marco Guazzone <marco.guazzone@...>

■ **attachment** `utils-201208280915.patch` added

Patch file for `utils.hpp` to be applied against the version you currently find in boost trunk

Changed 13 hours ago by Marco Guazzone <marco.guazzone@...>

■ **attachment** `utils_UBLA_UBLAS-201208280915.patch` added

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Changed 13 hours ago by Marco Guazzone <marco.guazzone@...>

■ **attachment** `utils.3.hpp` added

The new (i.e., already patched by `utils-201208280915.patch`) `utils.hpp` file.

Changed 13 hours ago by Marco Guazzone <marco.guazzone@...>

comment:4

In the last my comment, read the second `utils-201208280915.patch` as `utils_UBLA_UBLAS-201208280915.patch`.

Changed 14 minutes ago by Marco Guazzone <marco.guazzone@...>

comment:5

To date, some macros in `utils.hpp` fail when the value type has a complex type.

I've tried to fix it and to test the fix I have created a test-suite for the macros contained in `utils.hpp`.

I'm going to upload the patch file together with the test suite.

Changed 2 minutes ago by Marco Guazzone <marco.guazzone@...>

■ **attachment** `utils-fix_complex-201208281922.patch` added

Patch file for `utils.hpp` to make it works with complex numbers. To be applied to the version of `utils.hpp` in the current boost trunk.

Changed 73 seconds ago by Marco Guazzone <marco.guazzone@...>

■ **attachment** `utils.4.hpp` added

The new `utils.hpp` file that you should obtain after applying the `utils-fix_complex-201208281922.patch` patch.

Changed 13 seconds ago by Marco Guazzone <marco.guazzone@...>

- **attachment** [*test_ticket7296.cpp*](#) added

Test case for `utils.hpp`. It also shows that now `utils.hpp` works with complex value types.