Gromacs - Task #1847
improve means to specify C++ std library in CMake

10/23/2015 07:01 PM - Szilárd Páll

<table>
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<th>Status:</th>
<th>New</th>
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<tr>
<td>Priority:</td>
<td>Normal</td>
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<td>Assignee:</td>
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<td>Category:</td>
<td>build system</td>
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Description
The C++11 check suffers from a subtle issue which manifests in that once the test fails, even if compiler flags are provided e.g. to pass the right gcc path to icc (for a compatible libstdc++ to be picked up), the detection is not carried out again [Repro case shown below].

```
$ gcc --version | head -n1
gcc (SUSE Linux) 4.3.4 [gcc-4_3-branch revision 152973]
cmake [...]
CMake Error at CMakeLists.txt:609 (message):
  This version of GROMACS requires C++11. [...]  

$ cmake -DCMAKE_C_FLAGS=-gcc-name=/path/to/gcc -DCMAKE_CXX_FLAGS=-gcc-name=/path/to/gcc
cmake [...]
CMake Error at CMakeLists.txt:609 (message):
  This version of GROMACS requires C++11. [...]  
```

The issue is likely more general and manifests with clang too.

Because it is likely too cumbersome to reset the detection results based on the CXX flags variable's content, we should consider introducing a separate variable in which the necessary information can be passed (and value of which can be used to re-trigger detection).