GROMACS - Bug #968

Memory error with complex boolean selections
07/09/2012 11:22 AM - Teemu Murtola

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Teemu Murtola</td>
</tr>
<tr>
<td>Category:</td>
<td>selections</td>
</tr>
<tr>
<td>Target version:</td>
<td>4.5.6</td>
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<tr>
<td>Affected version - extra info:</td>
<td>4.5-4.5.5</td>
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<tr>
<td>Affected version:</td>
<td>4.5.5</td>
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**Description**

Complex boolean selections that contain static subexpressions may result in reallocation of memory to which a pointer is retained elsewhere. This leads to crashes or other unpredictable behavior. Example of a selection that causes problems is atomnr 1 to 4 or (atomnr 4 to 6 and (atomnr 5 to 7 or x < 2)).

The problem is fixed in master by dd3a102, which should be backported to release-4-5-patches.

**Associated revisions**

**Revision b7b531f3 - 07/09/2012 02:10 PM - Teemu Murtola**
Fix memory error with complex boolean selections.
Backported from dd3a102.
Conflicts: src/gmxlib/selection/compiler.c
Fixes #968.
Change-Id: if92b5b1eb8cf6b3acb510ba43f64fc82b63ab82a

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**History**

#1 - 07/10/2012 07:13 AM - Teemu Murtola
- Status changed from New to Closed
- Affected version - extra info set to 4.5-4.5.5

#2 - 07/17/2013 07:14 AM - Teemu Murtola
- Category changed from analysis tools to selections
- Affected version set to 4.5.5