## Gromacs - Bug #1697

### rare replica-exchange problem

03/04/2015 11:04 AM - Mark Abraham

<table>
<thead>
<tr>
<th>Status</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee</td>
<td>Michael Shirts</td>
</tr>
<tr>
<td>Category</td>
<td>mdrun</td>
</tr>
<tr>
<td>Target version</td>
<td>5.0.5</td>
</tr>
<tr>
<td>Affected version</td>
<td>5.0.4</td>
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</table>

### Description

If a series of multiple replica exchanges at a single attempt led to permutations of all replicas that formed a single cycle, problems ensued.

### Associated revisions

**Revision 3e1fc90f - 04/30/2015 10:54 AM - Michael Shirts**

Fix for rarely occurring replica exchange error.

It could write to unallocated memory when permutations of all replicas formed a single cycle (which is rare except for very low numbers of replicas)

Fixes #1697

Change-Id: l23e8f7213572d3e8b9461cfd7cb1eb790b45fe3

### History

**#1 - 03/04/2015 11:05 AM - Gerrit Code Review Bot**

- Gerrit received a related patchset '2' for Issue #1697
- Uploader: Mark Abraham (mark.j.abraham@gmail.com)
- Change-Id: l23e8f7213572d3e8b9461cfd7cb1eb790b45fe3
- Gerrit URL: [https://gerrit.gromacs.org/4483](https://gerrit.gromacs.org/4483)

**#2 - 04/09/2015 10:58 AM - Mark Abraham**

- Status changed from New to Fix uploaded

**#3 - 05/06/2015 04:52 PM - Mark Abraham**

- Status changed from Fix uploaded to Closed