## GROMACS - Bug #1772

### trjconv doesn’t display stdout properly during conversion

07/10/2015 07:43 PM - James Barnett

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
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<tr>
<td>Assignee:</td>
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<td>Category:</td>
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<td>Target version:</td>
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<td>Affected version - extra info:</td>
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<td>Affected version:</td>
<td>5.0.5</td>
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<tr>
<td>Difficulty:</td>
<td>uncategorized</td>
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### Description

**Example:**

I run a 100 ns simulation saving a frame every 1 ps, so I have 100,000 frames. I convert the file to a new trajectory with 50,000 frames (so every 2ps):

```
gmx trjconv -f prd.xtc -dt 2 -o out.xtc
```

During the conversion this is displayed for example (the number obviously updates) with lots of flickering throughout the entire conversion process (until the end where it is displayed properly):

```
-> frame 490 time 980.000
```

Other times I run it, it shows up properly throughout the entire run:

```
Reading frame 1000 time 1000.000
```

### Associated revisions

**Revision 85d59d17 - 05/10/2016 03:58 PM - Erik Lindahl**

Flush streams when not writing newline character

Some of our routines use the carriage return without a newline to keep writing the status e.g. on stderr.

For some operating systems this seems to lead to the output being cached in the buffers, so this change adds an explicit `flush()` for these print statements.

Fixed #1772.

Change-Id: I3ad9c4f0e962d8a0b2f8d2341af69f0e3d01a477

### History

#### #1 - 07/13/2015 11:56 AM - Erik Lindahl

It's likely the OS buffering stdout/stderr, which might make the behavior dependent on the current load on the system (or whatever other OS properties). Not sure we can fix it in Gromacs since we also depend on staying on a single line (i.e., no line feeds), and that might not go well with flushing the streams.

#### #2 - 05/08/2016 01:15 PM - Gerrit Code Review Bot

Gerrit received a related patchset '1' for Issue #1772.

Uploader: Erik Lindahl (erik.lindahl@gmail.com)

Change-Id: I3ad9c4f0e962d8a0b2f8d2341af69f0e3d01a477

Gerrit URL: https://gerrit.gromacs.org/5849

#### #3 - 05/08/2016 04:19 PM - Erik Lindahl

- Status changed from New to Fix uploaded

#### #4 - 05/10/2016 05:05 PM - Erik Lindahl
- Status changed from Fix uploaded to Resolved

#5 - 05/10/2016 05:05 PM - Erik Lindahl
- Status changed from Resolved to Closed