

GROMACS - Bug #2628

GMXRC removes trailing colon from existing MANPATH

08/27/2018 10:59 AM - Peter Kroon

Status: Resolved	
Priority: Normal	
Assignee:	
Category:	
Target version:	
Affected version - extra info:	Difficulty: uncategorized
Affected version: N/A	
Description	
<p>Hi all,</p> <p>I also posted this to the gmx userlist some time ago, and was told to make an issue here. Here's the description of the problem:</p> <p>I noticed that sourcing GMXRC removes any trailing colons from a set MANPATH environment variable. This colon is syntactically significant, and removing it causes `mandb` to ignore /etc/manpath.config instead of appending that file:</p> <pre>unset MANPATH export MANPATH=/opt/puppetlabs/puppet/share/man: 1. Note the trailing colon echo \$MANPATH /opt/puppetlabs/puppet/share/man: mandb mandb: warning: \$MANPATH set, appending /etc/manpath.config ... source /usr/local/gromacs-2018.1/bin/GMXRC 1. No more trailing colon echo \$MANPATH /usr/local/gromacs-2018.1/share/man:/opt/puppetlabs/puppet/share/man mandb: warning: \$MANPATH set, ignoring /etc/manpath.config ...</pre>	

Associated revisions

Revision 51b2fdb3 - 10/30/2020 09:08 AM - Andrey Alekseenko

Rework handling of PATH-like variables in GMXRC.bash/zsh

Old version was not robust to various kinds of trailing colons, as experienced in, e.g., #3219.

To make it all safer, a single function, that removes the old path and adds the new one to the beginning, is introduced.

Tested with:

- GNU bash 4.4.20
- GNU bash 5.0.17
- zsh 5.8

- dash 0.5.8

...

```
$ replace_in_path ":" "/new" "/old"
/new:
$ replace_in_path "" "/new" "/old"
/new
$ replace_in_path "/old" "/new" "/old"
/new
$ replace_in_path "/old:" "/new" "/old"
/new:
$ replace_in_path "/old:other" "/new" "/old"
/new:other
$ replace_in_path ":/other" "/new" "/old"
/new::other
$ replace_in_path "/other:" "/new" "/old"
/new:other:
$ replace_in_path "/other:/old" "/new" "/old"
/new:other
```

Full test:

...

```
$ bash -c 'MANPATH=""; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man
$ bash -c 'MANPATH=":"; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man:
$ bash -c 'MANPATH="/abc"; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man:/abc
$ bash -c 'MANPATH="/abc:"; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man:/abc:

$ bash -c 'MANPATH=":"; . scripts/GMXRC.bash; . scripts/GMXRC.bash; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man:
$ bash -c 'MANPATH=""; . scripts/GMXRC.bash; . scripts/GMXRC.bash; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man
$ bash -c 'MANPATH="/abc"; . scripts/GMXRC.bash; . scripts/GMXRC.bash; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man:/abc
$ bash -c 'MANPATH="/abc:"; . scripts/GMXRC.bash; . scripts/GMXRC.bash; . scripts/GMXRC.bash; echo $MANPATH;'
/usr/local/gromacs/share/man:/abc:
```

Closes #2628, #3219

History

#1 - 08/27/2018 05:11 PM - Gerrit Code Review Bot

Gerrit received a related patchset '1' for Issue [#2628](#).
Uploader: Paul Bauer (paul.bauer.q@gmail.com)
Change-Id: gromacs~master~11438bcb6e5f3acfcc72ef5675f37c0b2fe2ec8d6
Gerrit URL: <https://gerrit.gromacs.org/8260>

#2 - 08/28/2018 03:13 PM - Paul Bauer

- Status changed from New to Fix uploaded

#3 - 10/30/2020 09:30 AM - Anonymous

- Status changed from Fix uploaded to Resolved

Applied in changeset [51b2fdb3b3d0e75337a6ccbd27af3c4038a5e625](#).