**Description**

As reported on gmx-users:


Gdb backtrace indicates line 1054 (in version 5.0.4, line 1050 in current master) is to blame:

```
Program received signal SIGSEGV, Segmentation fault.
0x00007ffff66be7e0 in gen_pad (nnb=0x7fffffffaf40, atoms=0x6523c0, rtp=0x7ffffff7d2ac0, plist=0x7fffffff9f0, excl=0x680120, hb=0x0,
bAllowMissing=1) at /home/jalemkul/code/gromacs/gromacs-5.0.4/src/gromacs/gmxpreprocess/gen_ad.c:1054
1054 for (j = 0; j < hbang->nb; j++)
(gdb) bt
#0 0x00007ffff66be7e0 in gen_pad (nnb=0x7fffffffaf40, atoms=0x6523c0, rtp=0x7ffffff7d2ac0, plist=0x7fffffff9f0, excl=0x680120, hb=0x0,
bAllowMissing=1) at /home/jalemkul/code/gromacs/gromacs-5.0.4/src/gromacs/gmxpreprocess/gen_ad.c:1054
#1 0x00007ffff66ac889 in gmx_x2top (argc=1, argv=0x7fffffffe240)
    at /home/jalemkul/code/gromacs/gromacs-5.0.4/src/gromacs/gmxpreprocess/x2top.c:589
#2 0x00007ffff6715d1d in gmx::(anonymous namespace)::CMainCommandLineModule::run (this=0x644610, argc=7, argv=0x7fffffffe240)
    at /home/jalemkul/code/gromacs/gromacs-5.0.4/src/gromacs/commandline/cmdlinemodulemanager.cpp:119
#3 0x00007ffff6717487 in gmx::CommandLineModuleManager::run (this=0x7fffffffe210, argc=7, argv=0x7fffffffe240)
    at /home/jalemkul/code/gromacs/gromacs-5.0.4/src/gromacs/commandline/cmdlinemodulemanager.cpp:545
#4 0x0000000000040ed9a in main (argc=8, argv=0x7fffffffe238) at /home/jalemkul/code/gromacs/gromacs-5.0.4/src/programs/gmx.cpp:58
```

The bug appears to have been introduced in commit 7ba0a0841df25e54d36586e31003fbfe93bd2588d

**Related issues:**

Related to GROMACS - Bug #1276: pdb2gmx ignores angles when no bonds are present - Closed 06/05/2013

**Associated revisions**

Revision fadb3ecb - 06/24/2015 11:09 PM - Erik Lindahl

Avoid accessing hackblocks for x2top

Previous fixes for generating dihedrals would cause us to access the hackblock even when using x2top, which we should not do.

Fixes #1711.

Change-Id: Id0ea6d524d80b87fe257c9fd41c48c4be828654

**History**
- Related to Bug #1276: pdb2gmx ignores angles when no bonds are present added

- Status changed from New to Accepted
- Assignee set to Erik Lindahl

Gerrit received a related patchset '1' for Issue #1711.
Uploader: Erik Lindahl (erik.lindahl@gmail.com)
Change-Id: ldoe6d524d80b87fe257c9fd4f1c48c4be828654
Gerrit URL: https://gerrit.gromacs.org/4773

- Status changed from Accepted to Fix uploaded

- Status changed from Fix uploaded to Resolved

- Status changed from Resolved to Closed

- Target version changed from 5.x to 5.0.7