nice_header() in src/gmxlib/string2.c may dereference NULL pointer

If there exists pwd.h, but the user id cannot be found in password entry, getpwuid() returns NULL pointer. Since the user name is dereferenced without any test, this leads to null pointer dereference (and segmentation fault).

In src/gmxlib/string2.c,

    #ifdef HAVE_PWD_H
    uid  = getuid();
    pw   = getpwuid(uid);
    gh   = gethostname(buf, 255);
    user = pw->pw_name;
    #else

Fix is trivial:

    user = (pw ? pw->pw_name : unk);

Associated revisions

Revision 5c88c2b9 - 07/14/2013 05:28 AM - Mark Abraham
Fixed possible dereference of null pointer

getpwuid() can return null. For example, Shun Sakuruba reported that on Cray XE6 compute nodes have passwd.h, but users will not have passwd entries.

Fixes #1301

Change-Id: I66e8064438fc02591629b0d2558b9bc0af06795c0

History

#1 - 07/11/2013 08:45 AM - Shun Sakuraba
Note: the problem happened on Cray XE6 system, where the "compute nodes" do not have password entry of users.

#2 - 07/12/2013 01:44 AM - Mark Abraham
- Status changed from New to Fix uploaded
- Target version set to 4.6.4

Thanks [https://gerrit.gromacs.org/2497](https://gerrit.gromacs.org/2497)

**#3 - 08/13/2013 08:55 PM - Mark Abraham**
- Status changed from Fix uploaded to Resolved
- % Done changed from 0 to 100

Applied in changeset 5c88c2b958f9df979e47ba04e1480ac04baa773.

**#4 - 10/17/2013 05:58 PM - Mark Abraham**
- Status changed from Resolved to Closed