Gromacs - Bug #714

gettimeofday uses a deprecated structure

02/28/2011 06:59 PM - Victor Rosales

| Status:   | Closed       | Priority: | High          |
| Assignee: | Carsten Kutzner | Category: | mdrun          |
| Affected version - extra info: | 4.5.3                  | Affected version: |

Description

Files:
- src/tools/gmx_tune_pme.c +1917
- src/mdlib/sim_util.c +115

Both use

```c
...  
  struct timezone tz = { 0, 0 };  
  double seconds;  

  gettimeofday(&t,&tz);  
  ...
```

While the documentation of `gettimeofday()` states that timezone structure is deprecated and should not be used.

This issue manifest the next compiling error:

```c
...
  sim_util.c: In function 'gmx_gettime':  
  sim_util.c:115: error: variable 'tz' has initializer but incomplete type  
  sim_util.c:115: warning: excess elements in struct initializer  
  sim_util.c:115: warning: (near initialization for 'tz')  
  sim_util.c:115: warning: excess elements in struct initializer  
  sim_util.c:115: warning: (near initialization for 'tz')  
  sim_util.c:115: error: storage size of 'tz' isn't known  
  make[3]: *** [sim_util.lo] Error 1
...
```

The next patch fix this issue:

```c
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```

```
[icr@opensrc gromacs-4.5.3]$ diff -Naur ../gromacs-4.5.31/src/mdlib/sim_util.c src/mdlib/sim_util.c
--- ../gromacs-4.5.31/src/mdlib/sim_util.c  2011-02-28 15:55:07.000000000 -0200
+++ src/mdlib/sim_util.c  2010-09-29 08:35:05.000000000 -0300
@@ -112,9 +112,10 @@
{
 #ifdef HAVE_GETTIMEOFDAY
    struct timeval t;
+   struct timezone tz = { 0, 0 }; 
    double seconds;

   gettimeofday(&t,NULL);
```

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+    gettimeofday(&t,&tz);
+
+    seconds = (double) t.tv_sec + 1e-6*(double)t.tv_usec;

--- ../gromacs-4.5.31/src/tools/gmx_tune_pme.c 2011-02-28 15:54:49.000000000 -0200
+++ src/tools/gmx_tune_pme.c    2010-09-29 08:35:06.000000000 -0300
@@ -1914,9 +1914,10 @@
 
 #ifdef HAVE_GETTIMEOFDAY
     struct timeval t;
-+    struct timezone tz = { 0,0 };  
     double seconds;

-    gettimeofday(&t,NULL);
++    gettimeofday(&t,&tz);

     seconds = (double) t.tv_sec + 1e-6*(double)t.tv_usec;


Associated revisions
Revision 47ee8f81f - 03/01/2011 01:06 PM - Carsten Kutzner

Fixed bug #714: deprecated structure in gettimeofday

History
#1 - 03/01/2011 01:10 PM - Carsten Kutzner
- Category changed from build system to mdrun
- Status changed from New to 3
- Assignee set to Carsten Kutzner
- % Done changed from 0 to 100

#2 - 03/01/2011 01:14 PM - Carsten Kutzner
- Status changed from 3 to Closed