

TNG trajectory library - Bug #1536

TNG uses incorrect format for size_t on 32bit

06/28/2014 03:56 AM - Roland Schulz

Status: New	
Priority: Normal	
Assignee:	
Category:	
Target version:	
Affected version - extra info:	Affected version: version 2
Description	
When compiling with -m32 one gets:	
<pre>../src/external/tng_io/src/lib/tng_io.c:736:30: warning: format '%lu' expects argument of type 'long unsigned int', but argument 3 has type 'unsigned int' [-Wformat=] sizeof(struct tng_gen_block), __FILE__, __LINE__);</pre>	
(only the first of many).	
These warning describe a real problem and should be fixed. Options:	
<ul style="list-style-type: none">• Use PRIuPTR (assumes that uintptr_t is the same as size_t)• cast to 64-bit integer and then use 64-bit print (that's what we use in Gromacs) - need to hope that ptrs are never going to be 128bit• Define PRIuSIZE (as either %zu (non-MSDN) or %lu (MSDN)) and use that - one can also define it as %u, %lu or %llu depending on arch - or define it as PRIuPTR with fallback	