

GROMACS - Task #2009

improve command-line reporting of useful things

07/18/2016 12:21 AM - Mark Abraham

Status:	New	
Priority:	Normal	
Assignee:		
Category:		
Target version:		
Difficulty:	uncategorized	
Description		
Some ideas from recent gmx-users threads:		
<ul style="list-style-type: none">• People struggle with -DPOSRE vs -DPOSRES etc. so it would probably be useful for grompp to report the number of active restraints to the terminal• People think constraints = none might make water flexible so we should check that there's some explicit statement about the number of constraints+settles used and number of bonds/angles converted (along with the check that the timestep is likely to be stable)• Further, even though constraints is documented to be about automatic conversion, we could change the name to something like convert-to-constraints = none h-bonds all-bonds with the usual backwards-compatibility things. That we made an unfortunate choice that can be misunderstood isn't a reason to avoid improving it. Or we could replace the -DFLEXIBLE mechanism.• New people don't know how to interpret their EM result. The warnings about final step size being too large don't help noobs. Some people don't even know that +1e6 kJ/mol is terrible, so we should find some heuristic that pats them on the back if the final energy is less than some suitable negative number of kJ/mol per atom (or dof). Someone needing a tight EM for NMA already knows how to interpret what they need to know.		

History

#1 - 07/26/2016 12:54 PM - Mark Abraham

The use of vdwradii.dat isn't made explicit enough in some docs and command line reporting, eg https://mailman-1.sys.kth.se/pipermail/gromacs.org_gmx-users/2016-July/107500.html