

GROMACS - Task #3026

Feature # 2816 (New): GPU offload / optimization for update&constraints, buffer ops and multi-gpu communication

Feature # 2817 (In Progress): GPU X/F buffer ops

add flags for GPU force buffer op / reduction activation

07/05/2019 12:15 PM - Alan Gray

Status:	New
Priority:	Normal
Assignee:	
Category:	
Target version:	2020
Difficulty:	simple
Description	
To activate the GPU path for force buffer ops, we should use two flags:	
<ul style="list-style-type: none">• one indicating whether the feature is enabled (e.g. gpuBufferOpsEnabled)• another indicating whether this step it should be used (e.g. useGpuBufferOpsWithReduction)	
At least the latter should ideally be in the ppForceWorkload data structure which seems to be the natural place where we want to describe what work is happening on this rank.	
<ul style="list-style-type: none">• Also consider all possible combinations of triggers, and how to combine optimally in each case	

History

#1 - 07/05/2019 12:16 PM - Alan Gray

- Description updated

#2 - 07/05/2019 12:16 PM - Alan Gray

- Description updated

#3 - 07/05/2019 07:16 PM - Szilárd Páll

- Tracker changed from Feature to Task

- Subject changed from New flags for GPU force buffer op activation to add flags for GPU force buffer op / reduction activation

- Description updated

#4 - 08/01/2019 04:46 PM - Alan Gray

- Description updated