

ScalES-PPM - Task #295

Apply optimizations to repartitioning routines

01/02/2012 02:17 PM - Thomas Jahns

Status:	New	Start date:	01/02/2012
Priority:	Normal	Due date:	
Assignee:	Thomas Jahns	% Done:	0%
Category:		Estimated time:	0:00 hour
Target version:			
Description			
The repartition-by-swapping routines can benefit from the following improvements:			
<ul style="list-style-type: none">• repartition in parallel by pairing up lowest weight with highest weight part, second-lowest weight with second-highest weight part etc.• sort the larger part weights (size n) to achieve $O(\log n)$ lookup			
This issue is mostly for documenting the progress of an on-going implementation: the above is done for the variant for multi-process and 4 byte integer weights (mp_i4) the following are required for completion:			
<ul style="list-style-type: none">• mp_dp• mt_i4• mt_dp			
Where the multi-threaded variants have yet to be written.			