

U.S. Pat. No. 11,537,442 (Claims 1-10)

Claims 1-8	Claims 9-10
[1.1] A method of operating a heterogeneous computing system comprising a plurality of computation nodes and a plurality of booster nodes, at least one of the plurality of computation nodes and a plurality of booster nodes being arranged to compute a computation task, the computation task comprising a plurality of sub-tasks, the method comprising:	[9.1] A heterogeneous computing system comprising:
[1.2] in a first computing iteration, assigning and processing the plurality of sub-tasks by at least a portion of the plurality of computation nodes and at least a portion of the plurality of booster nodes in a first distribution; and	[9.2] a plurality of computation nodes and a plurality of booster nodes for computing one or more tasks comprising multiple sub-tasks;
[1.3] generating, using information relating to the processing of the plurality of sub-tasks by at least the portion of the plurality of computation nodes and at least the portion of the plurality of booster nodes, a further distribution of the plurality of sub-tasks between the plurality of computation nodes and the plurality of booster nodes for processing thereby in a further computing iteration.	[9.3] a communication interface connecting the plurality of computation nodes with each other and the plurality of booster nodes;
2. The method according to claim 1, wherein an application manager receives the information and determines the further distribution.	[9.4] a resource manager for assigning at least a portion of the plurality of booster nodes and at least a portion of the plurality of computation nodes to each other for the computing of the one or more tasks in a first computing iteration; and
[3.1] The method according to claim 2, wherein a resource manager determines the assignment of the plurality of sub-tasks to the plurality of computation nodes and the plurality of booster nodes for the first computing iteration as a function of the computation task and	[9.5] an application manager configured to receive information from daemons operating in at least the portion of the plurality of computation nodes and at least the portion of the plurality of booster nodes to update a distribution of the multiple sub-tasks between the plurality of computation nodes and the plurality of booster nodes in a further computing iteration.
[3.2] wherein the application manager receives the information and processes the information as input to the resource manager such that the resource manager dynamically alters further distribution during the computing of the computation task.	10. The heterogeneous computing system according to claim 9, wherein the resource manager receives the information such that the resource manager dynamically alters assignment of the plurality of computation nodes and the plurality of booster nodes to each other.
4. The method according to claim 3, wherein the resource manager receives the information such that the resource manager	

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EXHIBIT 1020**

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dynamically alters assignment of the plurality of computation nodes and the plurality of booster nodes to each other during the computation of the computation task.	
5. The method according to claim 1, wherein daemons operate in the plurality of computation nodes and the plurality of booster nodes to generate the information.	
6. The method according to claim 1, wherein the first distribution is determined based on a rating provided in source code for each sub-task in the plurality of sub-tasks.	
7. The method according to claim 1, wherein the information is used to provide a grouping of sub-tasks in at least one of the first computing iteration and the further computing iteration.	
8. The method according to claim 3, wherein a daemon operating at a node generates a measure of a loading of the node during processing of a sub-task of the plurality of sub-tasks.	