

Title (en)
ALLOCATION AND MONITORING UNIT

Title (de)
ZUORDNUNGS- UND ÜBERWACHUNGSEINHEIT

Title (fr)
UNITÉ D'ALLOCATION ET DE CONTRÔLE

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Abstract (en)
[origin: WO2010105889A1] The present invention relates to an allocation and monitoring unit for allocating threads of a task to a plurality of auxiliary processing units and for monitoring the parallel execution of said threads by said auxiliary processing units, the task being executed in a sequential manner by a main processing unit. The allocation and monitoring unit comprises: a means for managing virtual auxiliary processing units; a means for managing physical auxiliary processing units, each physical auxiliary processing unit corresponding to an auxiliary processing unit; and a means for managing the auxiliary processing units. The means for managing the auxiliary processing units comprises: a means for allocating a virtual auxiliary processing unit to a thread to be executed; a means for managing the correlation between the virtual auxiliary processing units and the physical auxiliary processing units, such that the auxiliary processing units execute the threads of the task in parallel by means of the virtual auxiliary processing units, which are allocated as late as possible and released as soon as possible. The invention is useful for onboard systems with high processing power.

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