Title (en)
METHOD AND SYSTEM FOR CONDUCTING INTENSIVE MULTITASK AND MULTIFLOW CALCULATION IN REAL-TIME

Title (de)
VERFAHREN UND SYSTEM ZUM DURCHFÜHREN EINER INTENSIVEN MULTITASK- UND MULTIFLOW-BERECHNUNG IN ECHTZEIT

Title (fr)
PROCEDE ET SYSTEME DE CALCUL INTENSIF MULTITACHE ET MULTIFLOT EN TEMPS REEL

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Application
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Abstract (en)
[origin: WO2007051935A1] The system for conducting intensive multitask and multiflow calculation in real-time comprises at least one central processor core (SPP) provided for supporting the software system and comprising a control unit (ESCU) provided for assigning threads of an application, the non-critical threads being run by the central processor core (SPP), whereas the intensive or specialized threads are assigned to an auxiliary processing part (APP) comprising a set of N auxiliary calculating units (APUO, ..., APUN-1) that are optimized for rapidly processing certain operations, a memory space (SMS) shared by the auxiliary calculating units (APUO, ..., APUN-1) via an internal network and a unit (ACU) for controlling and assigning the auxiliary resources. The different elements of the system are arranged in such a manner that the communication between the different auxiliary calculating units (APUO,..., APUN-I) or between these auxiliary calculating units (APUO,..., APUN-1) and the central processor core (SPP) ensues via the shared memory space (SMS) and the internal network.

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