Title (en)

SYSTEM AND METHOD FOR PARALLEL PROCESSING USING DYNAMICALLY CONFIGURABLE PROACTIVE CO-PROCESSING CELLS

Title (de)

SYSTEM UND VERFAHREN ZUR PARALLELVERARBEITUNG MIT DYNAMISCH KONFIGURIERBAREN PROAKTIVEN CO-VERARBEITUNGSZELLEN

Title (fr)

SYSTÈME ET PROCÉDÉ DE TRAITEMENT PARALLÈLE AU MOYEN DE CELLULES DE CO-TRAITEMENT PROACTIVES CONFIGURABLES DE MANIÈRE DYNAMIQUE

Publication

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Application

EP 15825147 A 20150710

Priority

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Abstract (en)

[origin: WO2016014263A2] A parallel processing architecture includes a CPU, a task pool populated by the CPU, and a plurality of autonomous co-processing cells each having an agent configured to proactively interrogate the task pool to retrieve tasks appropriate for a particular so-processor. Each co-processor communicates with the task pool through a switching fabric, which facilitates connections for data transfer and arbitration between all system resources. Each so-processor notifies the task pool when a task or task thread is completed, whereupon the task pool notifies the CPU.

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