Title (en)

APPARATUS AND METHOD FOR MANAGING A SHAREABLE RESOURCE IN A MULTI-CORE PROCESSOR

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERWALTUNG EINER GEMEINSAM NUTZBAREN RESSOURCE IN EINEM MEHRKERNPROZESSOR

Title (fr)

APPAREIL ET PROCÉDÉ DE GESTION D'UNE RESSOURCE PARTAGEABLE DANS UN PROCESSEUR MULTICOEUR

Publication

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Application

EP 19796454 A 20190423

Priority

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Abstract (en)

[origin: WO2019212182A1] Embodiments herein disclose an apparatus and methods for managing a shareable resource(s) in a multi-core processor. Embodiments herein relate to computer systems and, more specifically, to parallelizing a data stream for distributed processing within a computer system. The method includes providing a lockless access of the shareable resource in a multiprocessing cores or single processing core, by releasing the assigned shareable resource in a dedicated release sub queue of the each processing core, to support cross core de-allocation of the shareable resources. The method includes monitoring an occupancy level of each memory pool and dynamically adjusting the allocation per-pool without locking the shareable resources.

IPC 8 full level

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CPC (source: EP)

G06F 9/5016 (2013.01); **G06F 9/5022** (2013.01); **G06F 9/526** (2013.01); **G06F 9/544** (2013.01)

Citation (search report)

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- [A] US 2014281349 A1 20140918 - PETERS MATTHEW LORNE [US]
- See references of WO 2019212182A1

Designated contracting state (EPC)

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