

Title (en)

METHOD FOR ACCELERATING THE EXECUTION OF A SINGLE-PATH PROGRAM BY THE PARALLEL EXECUTION OF CONDITIONALLY CONCURRENT SEQUENCES

Title (de)

VERFAHREN ZUR BESCHLEUNIGUNG DER AUSFÜHRUNG EINES EINZELPFADPROGRAMMS DURCH PARALLELE AUSFÜHRUNG VON BEDINGT KONKURRIERENDEN SEQUENZEN

Title (fr)

PROCÉDÉ D'ACCÉLÉRATION DE L'EXÉCUTION D'UN PROGRAMME À CHEMIN UNIQUE PAR EXÉCUTION EN PARALLÈLE DE SÉQUENCES CONDITIONNELLEMENT CONCURRENTES

Publication

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Application

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Priority

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- FR 2019051768 W 20190715

Abstract (en)

[origin: WO2020016511A1] The invention relates to a method for executing a program (P) by a computer system having computing resources capable of executing sequences of instructions, comprising a conditional selection of a sequence of instructions from a satisfied sequence (I2) and at least one unsatisfied sequence (I3), said method comprising the following steps: - on the execution of a sequence distribution instruction by a first calculation resource (A), distributing the execution of the satisfied sequence (I2) and the at least one unsatisfied sequence (I2) between the first calculation resource (A) and at least one second calculation resource (B); - parallel execution of the satisfied sequence (I2) and of the at least one unsatisfied sequence (I3) each by a calculation resource among the first (A) and the at least one second calculation resource (B); - once the satisfied sequence (I2) and the at least one unsatisfied sequence (I3) are fully executed, continuing the execution of program (P) by a calculation resource among the first and the at least one second calculation resource.

IPC 8 full level

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