

Title (en)  
PROCESSOR, AND METHOD FOR CONTROLLING THE SAME

Title (de)  
PROZESSOR UND VERFAHREN ZU SEINER ANSTEUERUNG

Title (fr)  
PROCESSEUR ET PROCÉDÉ DE COMMANDE DE CELUI-CI

Publication  
**EP 2160670 A1 20100310 (DE)**

Application  
**EP 08760556 A 20080605**

Priority  
• EP 2008056978 W 20080605  
• DE 102007026982 A 20070607

Abstract (en)  
[origin: WO2008148838A1] The invention relates to a processor (01) for a computer. Said processor (01), the speed of which can be regulated, comprises a control unit (02), an arithmetic logic unit (03) for executing the arithmetic instructions, and a controllable processor clock for providing a processor clock pulse. The processor (01) further comprises a time management unit (08) that is equipped with a time pulse generator (11) for providing a time pulse. The time management unit (08) is also equipped with a comparator for comparing a predefined value of an admissible time for executing an arithmetic instruction that is to be executed in the arithmetic logic unit (03) with a value of a time which is defined by the time pulse and has elapsed since the arithmetic instruction to be executed in the arithmetic logic unit (03) started being executed. The processor (01) according to the invention finally comprises coupling of the time management unit (08) to the controllable processor clock such that a control loop can be formed in which the processor clock pulse represents the regulated variable. The invention also relates to a method for regulating a processor clock pulse, a program to be executed on the processor, a multiprocessor system, and a method for distributing arithmetic instructions to processors of said multiprocessor system.

IPC 8 full level  
**G06F 1/32** (2006.01); **G06F 9/45** (2006.01); **G06F 11/34** (2006.01)

CPC (source: EP)  
**G06F 1/14** (2013.01); **G06F 11/3419** (2013.01); **G06F 11/348** (2013.01); **G06F 2201/86** (2013.01); **G06F 2201/865** (2013.01)

Citation (search report)  
See references of WO 2008148838A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**DE 102007026982 A1 20081211**; **DE 102007026982 B4 20090402**; EP 2160670 A1 20100310; WO 2008148838 A1 20081211

DOCDB simple family (application)  
**DE 102007026982 A 20070607**; EP 08760556 A 20080605; EP 2008056978 W 20080605