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[Continued on next page]

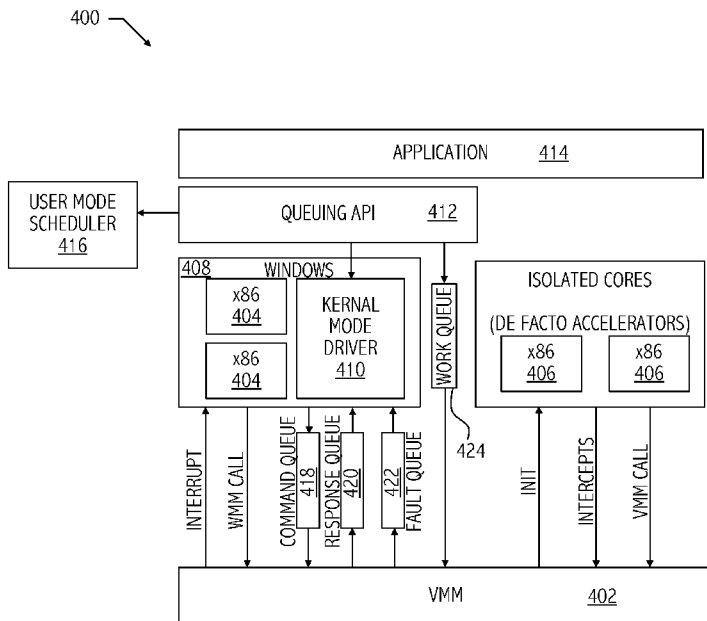(54) **Title:** HYPERVISOR ISOLATION OF PROCESSOR CORES

FIG. 3

(57) **Abstract:** Techniques for utilizing processor cores include sequestering processor cores for use independently from an operating system. In at least one embodiment of the invention, a method includes executing an operating system on a first subset of cores including one or more cores of a plurality of cores of a computer system. The operating system executes as a guest under control of a virtual machine monitor. The method includes executing work for an application on a second subset of cores including one or more cores of the plurality of cores. The first and second subsets of cores are mutually exclusive and the second subset of cores is not visible to the operating system. In at least one embodiment, the method includes sequestering the second subset of cores from the operating system.

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SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/007104 A1 (ZIMMER VINCENT J [US] ET AL) 1 January 2009 (2009-01-01) abstract paragraph [0002] - paragraph [0012] paragraph [0061] - paragraph [0070] -----	1-15
X	JEFFERY C M ET AL: "Towards Byzantine Fault Tolerance in Many-Core Computing Platforms", DEPENDABLE COMPUTING, 2007. PRDC 2007. 13TH PACIFIC RIM INTERNATIONAL SYMPOSIUM ON, IEEE, PISCATAWAY, NJ, USA, 17 December 2007 (2007-12-17), pages 256-259, XP031234599, ISBN: 978-0-7695-3054-3 the whole document ----- -/--	1-15

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
5 August 2011	22/08/2011

Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Skomorowski, Markus

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INTERNATIONAL SEARCH REPORT

C(Continuation).   DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GOVIL K ET AL: "Cellular Disco: resource management using virtual clusters on shared-memory multiprocessors", PROCEEDINGS OF THE ACM SYMPOSIUM ON OPERATING SYSTEMS PRINCIPLES, XX, XX, vol. 34, no. 5, 12 December 1999 (1999-12-12), pages 154-169, XP002239253, abstract page 154, left-hand column, paragraph 1. - page 158, right-hand column, line 3.	1-15

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009007104 A1	01-01-2009	NONE	