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(71) Applicant (for all designated States except US): CITRIX SYSTEMS, INC. [US/US]; 851 West Cypress Creek Road, Fort Lauderdale, FL 33309 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): CARTALES, John [US/US]; C/o Citrix Systems, Inc., 851 West Cypress Creek Road, Fort Lauderdale, FL 33309 (US).

(74) Agent: PONIKIEWICZ, Kellan, D.; Choate, Hall & Stewart LLP, Two International Place, Boston, MA 02110 (US).

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(54) Title: METHODS AND SYSTEMS FOR EVALUATING HISTORICAL METRICS IN SELECTING A PHYSICAL HOST FOR EXECUTION OF A VIRTUAL MACHINE

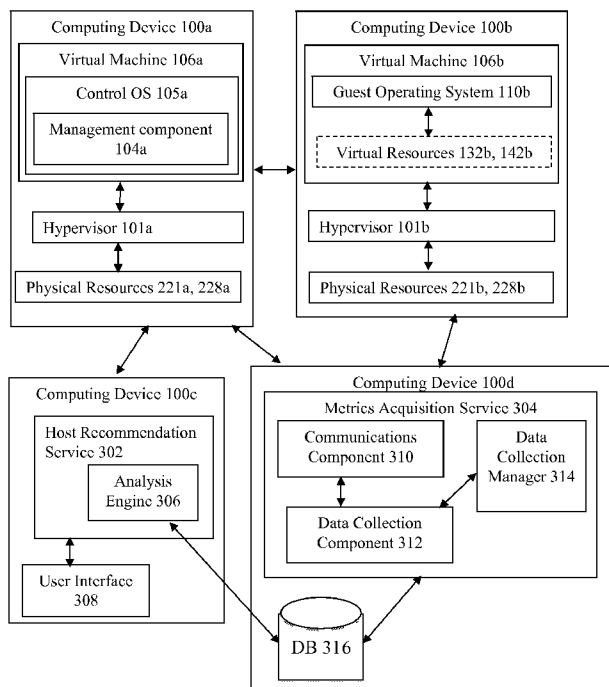


Fig. 3

(57) Abstract: A method for evaluating historical metrics in selecting a physical host for execution of a virtual machine includes receiving, by a host recommendation service, an identification of a virtual machine and a request for an identification of a physical host on which to execute the virtual machine. The method includes retrieving, by an analysis engine in communication with the host recommendation service, a plurality of metrics for each of a plurality of physical hosts available for executing the virtual machine, the plurality of metrics including a first metric identifying a current level of load on each of the plurality of physical hosts and including a second metric identifying a level of load on each of the plurality of physical hosts during a time period prior to the current time period. The method includes retrieving, by the analysis engine, a plurality of metrics associated with the virtual machine, the plurality of metrics including at least one metric identifying a level of load placed on a physical host by the virtual machine during a time period prior to the current time period. The method includes determining, by the analysis engine, a level of priority associated with at least one of the first metric identifying a current level of load on each of the plurality of physical hosts and the second metric identifying a level of load on each of the plurality of physical hosts during a time period prior to the current time period. The method includes assigning, by the analysis engine, a score to each of the plurality of physical hosts, responsive to the retrieved pluralities of metrics and to the determined level of priority. The method includes transmitting, by the host recommendation service, an identification of one of the plurality of physical hosts on which to execute the virtual machine.

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

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

## 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)

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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006/167984 A1 (FELLENSTEIN CRAIG W [US] ET AL FELLENSTEIN CRAIG WILLIAM [US] ET AL) 27 July 2006 (2006-07-27) paragraphs [0046], [0051], [0058], [0065]	1-26
X	US 2008/177424 A1 (WHEELER ANDREW R [US]) 24 July 2008 (2008-07-24) * abstract paragraphs [0025], [0026], [0027]	1-26
A	US 2008/250415 A1 (ILLIKKAL RAMESH KUMAR [US] ET AL) 9 October 2008 (2008-10-09) paragraphs [0003], [0011], [0017], [0019], [0032]	1-26

 Further documents are listed in the continuation of Box C. See patent family annex.

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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

Oestergaard, Morgan

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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