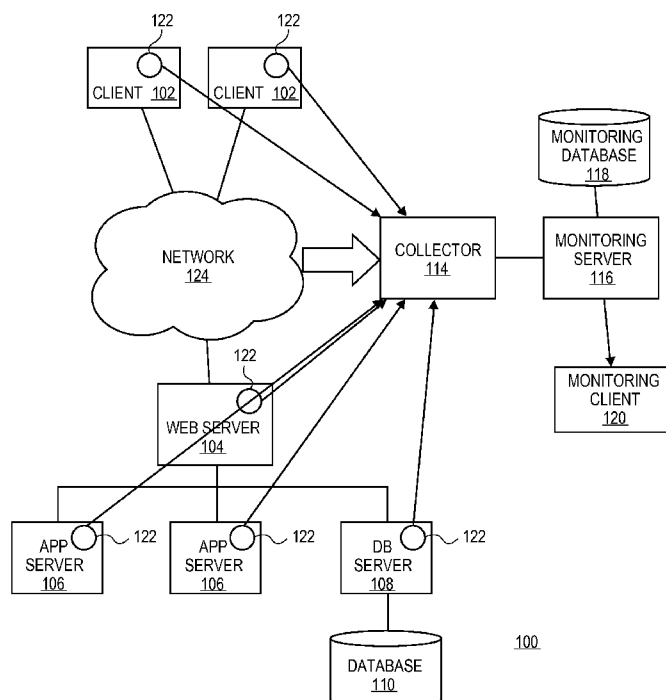




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SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
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(54) **Title:** OVERHEAD MANAGEMENT FOR EVENT TRACING**FIG. 1**

(57) **Abstract:** The present invention relates to managing data generated by software transactions, such as event tracing software. In one embodiment, data generated by event tracing software is monitored. The throughput of the data generated may then be modulated based on various criteria, such as a target data rate. The throughput target may be specified on a per-system basis or individual basis. Based on the throughput, the level of detail recorded is modulated. Individual processes may determine a limit or quota depending on their contribution to the throughput. In one embodiment, the method calls for a trace are modified with different property specifications to meet a desired throughput of event tracing data.



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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International application No

PCT/US2012/023722

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04L29/08 G06F11/34 G06F9/50
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 H04L

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 practicable, 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 7 827 539 B1 (WYGODNY SHLOMO [IL] ET AL) 2 November 2010 (2010-11-02) column 1, line 18 - column 2, line 46 column 2, line 62 - column 6, line 12 -----	1-15
X	US 2006/280119 A1 (KARAMANOLIS CHRISTOS [US] ET AL) 14 December 2006 (2006-12-14) paragraphs [0003] - [0007] paragraphs [0016] - [0036] -----	1-15
A	US 2004/078691 A1 (CIRNE LEWIS K [US] ET AL) 22 April 2004 (2004-04-22) paragraphs [0029] - [0031] paragraphs [0036] - [0053] -----	1-15



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/023722

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

Updating the resources used by a process running on an application server based on the amount of resources consumed in relation to an assigned quota.

2. claim: 16

Recording data for a plurality of transactions based on a data activity rate, a minimum call duration and a set of property types.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/023722

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 7827539	B1	02-11-2010	NONE	

US 2006280119	A1	14-12-2006	NONE	

US 2004078691	A1	22-04-2004	NONE	
