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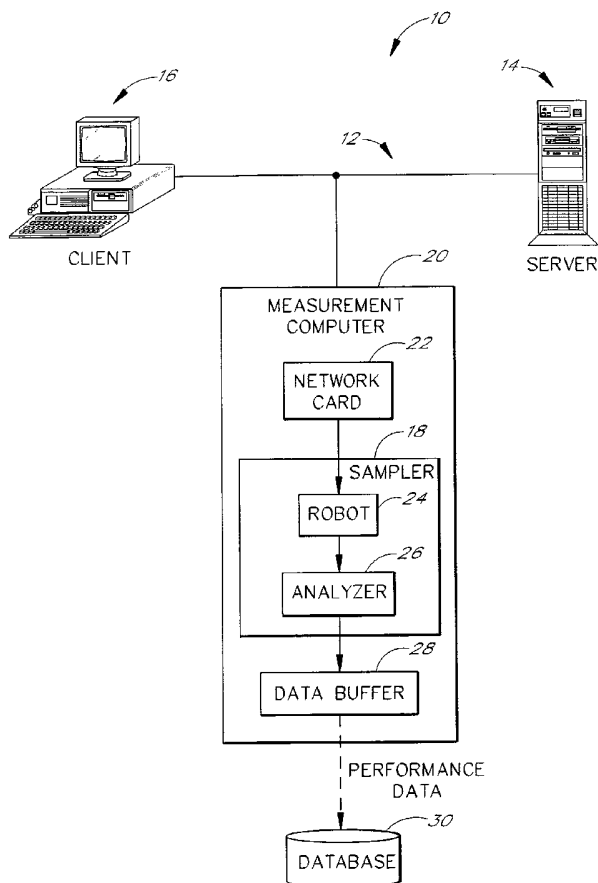
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(54) Title: SERVER AND NETWORK PERFORMANCE MONITORING



(57) Abstract: The performance of a client-server network is measured by passively monitoring a TCP packet stream between a client and a server during a communications session. The packet stream may be monitored by a device which is local to the client, by a device which is local to the server, or both. By measuring elapsed times between TCP messages associated with selected events or stages of the session, separate response times and other performance parameters are calculated for the network and for the server, including connect time, network latency, server response times, network bandwidth, and server bandwidth. Because the message stream is monitored at an application-independent protocol layer and without regard to application-dependent events or messages, the method is not limited to specific applications, and does not require advance knowledge of the type of application data requested by the client.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 713/153; 709/203; 364/200

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)

U.S. : 713/153; 709/203; 364/200

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)

STN, EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,644,717 A [CLARK] 01 July 1997, col. 1, line 30-col. 2, line 11, col. 3, lines 25-34, col. 5, line 1-col. 7, line 35, col. 10, line 66-col. 11, line 5, col. 13, line 57-col. 14, line 65.	1-39
Y,P	US 6,108,782 A [FLETCHER et al] 22 August 2000, col. 2, lines 21-40, col. 6, lines 10-25, col. 7, lines 9-16, col. 10, line 54-col. 11, line 4, col. 14, lines 8-17, col. 18, lines 26-34, col. 23, line 12-col. 24, line 41.	1-12, 14-32, 34-39
Y	US 4,849,879 A [CHINNASWAMY et al] 18 July 1989, col. 20, lines 15-60.	13, 33

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

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