(54) Title: REAL-TIME PROGRAM AUDIT SOFTWARE

(57) Abstract: Real-time program audit software that is a method and system for generating source program audit statements (33 of fig 5) and data as the program executes. These audits provide real-time execution analysis (600) of the program. The real-time audit is applicable to virtually any programming language that uses source program statements, whether the source statements are compiled into an executable object or are interpreted during execution. Program execution audits are based on the initial execution audit profile (26), customized execution audits, or dynamic audits specified during program execution. Program audit output is to disk, and is available for immediate online display or printing, or for expanded auditing analysis. Expanded auditing analysis provides for extensive analysis of the real-time program audit output data from all audited programs based on the desired analysis (22), which includes: program, user and date and time ranges, audit code prefix, audited file, field (24), label, and any execution audited data value.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7): G06F 9/45
   US CL: 717/4
   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.: 717/4

   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)
   EAST (uspat, derwent, jpo, eipo), IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y,P</td>
<td>USA 6,011,920 (EDWARDS et al.) 04 January 2000, abstract,</td>
<td>7, 10</td>
</tr>
<tr>
<td>Y,P</td>
<td>USA 6,071,316 (GOOSSEN et al.) 06 June 2000, the abstract, fig. 3, col. 1 lines 25-36, col. 1 line 66-col. 2 line 42, col 3 lines 2-43, and col. 4 lines 5-17,</td>
<td>7, 10</td>
</tr>
<tr>
<td>Y</td>
<td>USA 5,771,385 (HARPER) 23 June 1998, the abstract, fig. 1, col. 1 lines 13-67, col. 2 lines 15-32, col. 2 lines 49-col. 3 line 14, col. 3 line 49-61, col. 45-59, and col. 5 line 20-45.</td>
<td>7, 10</td>
</tr>
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</table>

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

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Date of the actual completion of the international search
30 SEPTEMBER 2000

Date of mailing of the international search report
20 DEC 2000

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