(54) Title: SOFTWARE DEVELOPMENT ENVIRONMENT FOR PLATFORM-INDEPENDENT APPLICATION PROGRAMS

(57) Abstract: In an environment for developing software application programs for use on multiple platforms, a platform-independent application program is provided to multiple platform-specific hosts. Each host provides a runtime environment for execution of the application program on a corresponding target platform. A target environment simulator utilizes profiles to establish features for each target platform such that each target platform emulates the behavior of a particular computing device as defined by the profiles. Thus, the behavior of a large quantity of different target devices may be emulated to remove the necessity of testing applications on actual computing device platforms.
Published: with international search report

Date of publication of the international search report: 12 September 2008
A. CLASSIFICATION OF SUBJECT MATTER

**IPC:** G06F 9/44( 2006.01), 13/10( 2006.01), 13/12( 2006.01), 9/45( 2006.01), 9/455( 2006.01)

**USPC:** 703/20, 21, 22, 23, 717/100, 134, 135

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.: 703/20, 21, 22, 23; 717/100, 134, 135

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 - terms: multi/multiple/different/diverse/cross/plurality platform/architecture/device simulator/emulator

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>X</td>
<td>US 2003/0208748 A1 (Levin et al) 6 November 2003 (06.11.2003), Fig 2, Fig 4, [0011], [0018], [0030], [0047], [0053]</td>
<td>1, 2, 6</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,802,058 B2 (Banavar et al.) 5 October 2004 (05.10.2004), abstract, Fig 3, Fig 5B, Fig 5C, column 2, lines 6-35, column 3, lines 1-15, column 5, lines 34-67, column 6, line 55 - column 9, line 15</td>
<td>3-5 and 7-23</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,680,584 (Herdeg et al.) 21 October 1997 (21.10.1997), see Fig 1, Fig 2A, column 3, lines 57-61, column 4, lines 14-41, column 6, lines 57-61</td>
<td>13-23</td>
</tr>
</tbody>
</table>

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 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

- 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
- 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
- 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

Date of the actual completion of the international search: 28 May 2008 (28.05.2008)

Date of mailing of the international search report: 20 June 2008

Name and mailing address of the ISA/US

- Mail Stop PCT-Attn: ISA/US Commissioner for Patents
- P.O. Box 1450
- Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Lewis Bullock

Telephone No. (571) 272-2100

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