Title: METHOD, SYSTEM AND A COMPUTER-READABLE RECORDING MEDIUM FOR CONTROLLING STORAGE OF DATA IN MEMORY AND SYSTEM THEREFOR

Abstract: A memory control system used for storage of data and a control method thereof are provided. The memory control system includes a memory unit including a plurality of memory cells storing data, a recording counter unit counting recording number for each memory cell of the memory unit, and a central processing unit (CPU). The CPU selects a first cell for the data recording operation when data recording operation is requested. The CPU determines whether a recording number of the selected first cell reaches a predetermined recordable threshold value. When the recording number of the selected first cell does not reach the recordable threshold value, the CPU performs the requested data recording operation to the selected first cell. When the recording number of the selected first cell reaches the recordable threshold value, the CPU selects a second cell different from the first cell and determining whether a recording number of the second cell reaches the recordable threshold value, and performs the requested data recording operation to the second cell when the recording number of the second cell does not reach the recordable threshold value.
Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G06F 12/00

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)

IPC7 G06F 12/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic database consulted during the international search (name of data base and, where practicable, search terms used)

ekIPASS "data", "memory", "threshold", "cell", "count", "address"

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 5673238 A (Kabushiki Kaisha Toshiba) 30 Sep. 1997 see the whole document, in particular, Fig.4, Fig.9, Fig.12 and the summary of the invention</td>
<td>1-29</td>
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<tr>
<td>A</td>
<td>US 6230235 B1 (Apache Systems, Inc.) 8 May 2001 see the abstract</td>
<td>1, 15</td>
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<tr>
<td>A</td>
<td>US 2001023472 A1 (Noriko Kubushiro) 20 Sep. 2001 see the abstract</td>
<td>1, 15</td>
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<tr>
<td>A</td>
<td>KR1020000000565 A (Sun Micro Systems Inc.) 25 Jan. 2000 see the whole document, in particular, claim 16 &amp; 19</td>
<td>1, 15</td>
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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

08 JULY 2005 (08.07.2005)

Date of mailing of the international search report

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<th>Publication date</th>
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<tr>
<td>US06230235</td>
<td>08.05.2001</td>
<td>US6230235B1, US6230235B2</td>
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