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**Published:**

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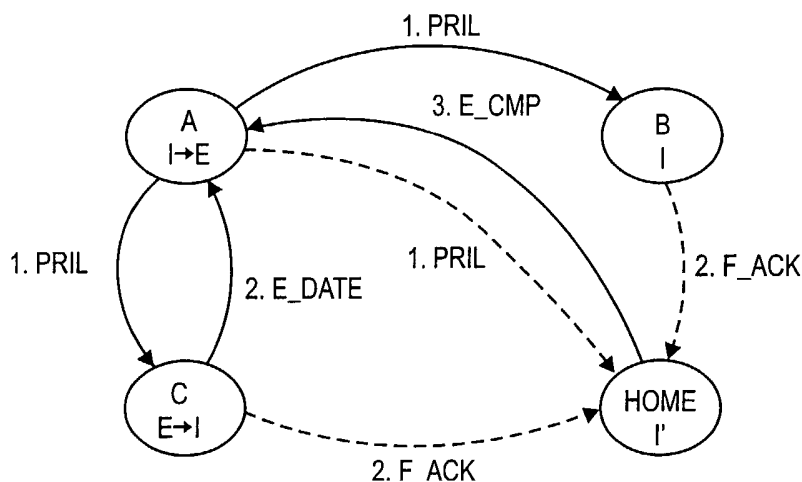
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN EFFICIENT TWO-HOP CACHE COHERENCY PROTOCOL

### BASIC READ TRANSACTION



(57) Abstract: The invention relates to a distributed cache coherency protocol in a multi-cache multiprocessor system solving conflicts at a home node.

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# INTERNATIONAL SEARCH REPORT

Inte      al Application No  
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 : G06F12/08		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 : G06F		
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 practical, search terms used)  EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 067 611 A (CARPENTER ET AL) 23 May 2000 (2000-05-23) figures 1,3A-3D,4 column 9, line 40 - column 12, line 31	1-6
A	US 6 092 155 A (OLNOWICH ET AL) 18 July 2000 (2000-07-18) column 4, line 56 - column 4, line 57	1-6
X	US 6 594 733 B1 (CARDENTE JOHN T.) 15 July 2003 (2003-07-15) figure 1 column 2, line 45 - column 2, line 64 column 3, line 23 - column 3, line 36 column 18, line 5 - column 18, line 31 column 21, line 28 - column 21, line 67 column 34, line 51 - column 35, line 5	11-21
<input type="checkbox"/> Further documents are listed in the continuation of box C.		
<input checked="" type="checkbox"/> Patent family members are listed in 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 document 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	
Date of the actual completion of the international search  <p style="text-align: center;">21 October 2005</p>	Date of mailing of the international search report  <p style="text-align: center;">28. 11. 2005</p>	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  <p style="text-align: center;">Filip, L</p>	

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2005/012087

## Box 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 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 fee, this Authority did not invite payment of any additional fee.
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.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- 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: 1-6

A method comprising:

- transmitting, from a first peer node, a request for a copy of a block of data to multiple nodes in a multi-node system;
  - transmitting, from a second peer node, the copy of a block of data to the first peer node and an acknowledgement to a home node; and
  - transmitting, from the home node, a completion message to the first node to indicate completion of the request from the first peer node.
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2. claims: 7-21

System and method for resolving conflicts among a plurality of peer nodes at the home node.

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# INTERNATIONAL SEARCH REPORT

International Application No.  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
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US 6594733	B1	15-07-2003	NONE	