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(54) **Title:** MEMORY ARBITRATION SYSTEM AND METHOD HAVING AN ARBITRATION PACKET PROTOCOL

(57) **Abstract:** A memory hub and method for transmitting a read response on a data path of a memory hub interposed between a transmitting memory hub and a receiving memory hub. An arbitration packet including data indicative of a data path configuration for an associated read response is received at the memory hub. The arbitration packet is decoded, and the data path is configured in accordance with the data of the arbitration packet. The associated read response is received at the memory hub and the associated read response is coupled to the configured data path for transmitting the same to the receiving memory hub.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/09523

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **G06F 12/00( 2006.01)**

USPC: 711/150,151,105  
 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. : 711/150, 151, 105

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)  
 Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E --- A,E	US 2005/0086441 A1 (MEYER et al) 21 April 2005(21.04.2005), see entire document.	1-2, 4, 7-10, 12-14, 17-19, 22-36 ----- 3, 5-6, 11, 15-16 and 20-21

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

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"A" document defining the general state of the art which is not considered to be of particular relevance	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
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"O" document referring to an oral disclosure, use, exhibition or other means	"G" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 11 May 2006 (11.05.2006)	Date of mailing of the international search report 12 JUL 2006
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Continuation of B. FIELDS SEARCHED Item 3:  
US-PGPUB; USPAT, USOCR, EPO, JPO, DERWENT; IBM-TDB:"memory arbitration system" and hub, packet"interface" selection or  
priority) and "arbitration packet"