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(54) Title: RENAMING FOR REGISTER WITH MULTIPLE BIT FIELDS

(57) Abstract: An apparatus and method are provided for renaming a logical register for which bit accesses of varying lengths are permitted, such as a predicate register. Rename logic supports renaming for both partial-bit accesses and bulk-bit accesses to bits of the register. Rename logic utilizes a rename map table associated with the logical register to be renamed and also includes a plurality of physical rename registers. They physical rename registers include a set of skinny physical rename registers to be used for renaming for partial-bit writes. The physical rename registers also include a set of fat physical rename registers to be used for renaming for bulk-bit writes. Additional sizes of physical rename registers may also be employed. The entries of the single physical rename map table may point to either fat or skinny physical rename registers.



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INTERNATIONAL SEARCH REPORT

Inte l Application No
PC 2004/023235

A. CLASSIFICATION OF SUBJECT MATTER

G06F9/38

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)
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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 047 369 A (COLWELL ET AL) 4 April 2000 (2000-04-04) column 1, line 35 - line 42 column 3, line 65 - column 4, line 67 column 6, line 64 - column 7, line 6 column 8, line 66 - column 9, line 37 column 13, line 34 - line 52 column 14, line 51 - column 15, line 25 column 50, line 66 - column 51, line 66	1-22
X	US 5 689 720 A (NGUYEN ET AL) 18 November 1997 (1997-11-18) column 5, line 1 - line 7 column 37 - column 64 column 43, line 21 - line 33 column 49, line 8 - line 57 figure 12	1-8
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☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	column 3, line 43 - column 5, line 42 -----	14-22
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A	US 6 393 546 B1 (WITT DAVID B ET AL) 21 May 2002 (2002-05-21) column 2, line 62 - column 4, line 32 -----	1,14
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 5689720	A	18-11-1997	NONE	
US 6393552	B1	21-05-2002	NONE	
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