

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
6 March 2003 (06.03.2003)

PCT

(10) International Publication Number  
WO 2003/019381 A3

## (51) International Patent Classification:

G06F 12/08 (2006.01)

## (21) International Application Number:

PCT/US2002/027354

## (22) International Filing Date: 27 August 2002 (27.08.2002)

## (25) Filing Language:

English

## (26) Publication Language:

English

## (30) Priority Data:

60/315,144	27 August 2001 (27.08.2001)	US
10/212,943	5 August 2002 (05.08.2002)	US

(71) Applicant: INTEL CORPORATION [US/US]; 2200 Mission College Boulevard, Santa Clara, CA 95052 (US).

(72) Inventors: ROSENBLUTH, Mark; 4 Crestview Drive, Uxbridge, MA 01569 (US). WOLRICH, Gilbert; 4 Cider Mill Road, Framingham, MA 01701 (US). BERNSTEIN, Debra; 321 Old Lancaster Road, Sudbury, MA 01776 (US).

(74) Agent: HARRIS, Scott, C.; Fish &amp; Richardson, P.C., 12390 El Camino Real, San Diego, CA 92130 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

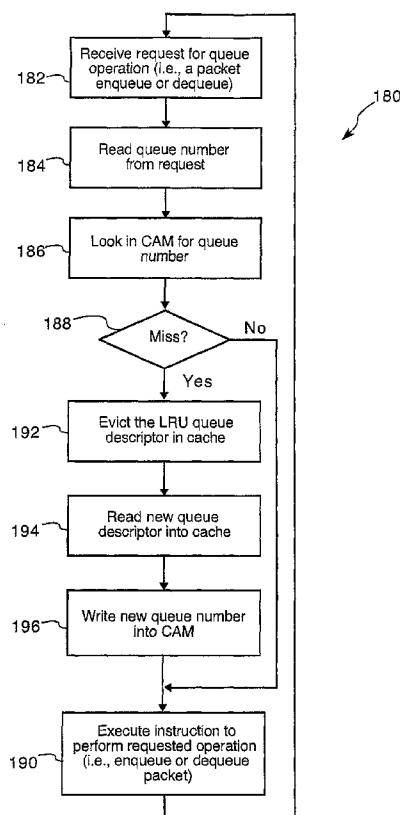
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: A SOFTWARE CONTROLLED CONTENT ADDRESSABLE MEMORY IN A GENERAL PURPOSE EXECUTION DATAPATH



(57) Abstract: A lookup mechanism provides an input value to a datapath element disposed in an execution datapath of a processor and causes the datapath element to compare the input value to stored identifier values. The lookup mechanism receives from the datapath element a result based on the comparison.



**(88) Date of publication of the international search report:**  
14 December 2006

*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

International Application No  
PCT/US2002/027354

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. G06F12/08

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, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 953 897 A (HEWLETT-PACKARD COMPANY) 3 November 1999 (1999-11-03)	1-7,9, 11-22
Y	paragraph [0008] - paragraph [0014]	10
A	paragraph [0019] - paragraph [0021]; figure 2	8
Y	----- WO 01/48596 A (INTEL CORPORATION; WOLRICH, GILBERT; CUTTER, DANIEL; WHEELER, WILLIAM;) 5 July 2001 (2001-07-05)	10
A	page 4, line 6 - page 5, line 4; figures 1,2 page 10, line 20 - page 12, line 19	1-5,9, 15-22
X	----- WO 00/33195 A (SUN MICROSYSTEMS, INC) 8 June 2000 (2000-06-08) page 1, line 17 - page 2, line 2 page 11, line 15 - line 27; figures 1,2,6 page 2, line 19 - page 4, line 5 page 7, line 11 - line 18	1-7,9-22

Further documents are listed in the continuation of box C.

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

6 October 2006

Date of mailing of the international search report

13/10/2006

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

Nielsen, Ole

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/US2002/027354

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0953897	A	03-11-1999	DE	69816784 D1		04-09-2003
			DE	69816784 T2		15-04-2004
			US	6272614 B1		07-08-2001
WO 0148596	A	05-07-2001	AU	2078301 A		09-07-2001
			CN	1437727 A		20-08-2003
			EP	1244959 A2		02-10-2002
			SG	110044 A1		28-04-2005
			TW	544584 B		01-08-2003
			US	6324624 B1		27-11-2001
			US	2002038403 A1		28-03-2002
WO 0033195	A	08-06-2000	US	6230230 B1		08-05-2001