



(51) International Patent Classification:

G06F 9/455 (2006.01)

(21) International Application Number:

PCT/US2013/040588

(22) International Filing Date:

10 May 2013 (10.05.2013)

(25) Filing Language:

English

(26) Publication Language:

English

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

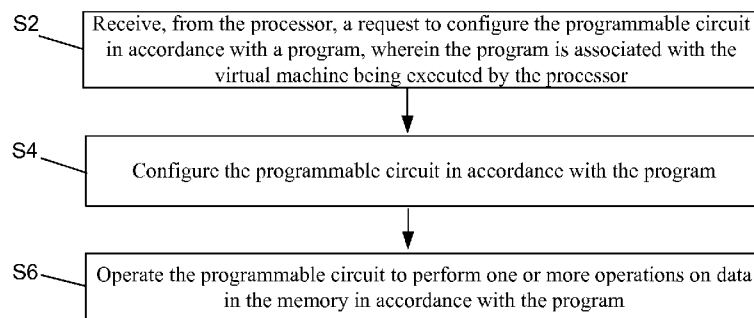
— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

25 June 2015

(54) Title: ACCELERATION OF MEMORY ACCESS

Fig. 6



(57) Abstract: Technologies are generally described for systems, devices and methods effective to accelerate memory access. A memory unit, including a memory and a programmable circuit, may be in communication with a processor executing a virtual machine. The memory unit may receive from the processor, a request to configure the programmable circuit in accordance with a program. The program may be associated with the virtual machine. The programmable circuit may be configured in accordance with the program. The programmable circuit may then be operated to perform one or more operations on data in the memory.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2013/040588

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 9/455 (2013.01)

USPC - 718/1

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)

IPC(8) - G06F 9/455, G06F 12/00, G06F 11/28, G06F 12/08, G06F 17/30, G06F 12/10, G06F 12/02 (2013.01)

USPC - 718/1, 714/35, 711/E12.017, 711/E12.001, 714/E11.178, 711/154, 711/141, 711/118, 1/1, 707/999.003, 707/999.002, 718/100, 711/E12.9

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

CPC - G06F 9/4856, G06F 9/3834, G06F 13/4243, G06F 9/466, G06F 9/526, G06F 17/30445, G06F 12/08, G06F 12/0253 (2013.01)

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

Orbit, Google Patents, Google, Google Scholar.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2011/0145591 A1 (GRZYBOWSKI) 16 June 2011 (16.06.2011), entire document	1-28
Y	WO 2012/121736 A1 (MANDRE) 13 September 2012 (13.09.2012), entire document	1-28
Y	US 2009/0327667 A1 (KRITHIVASAN et al) 31 December 2009 (31.12.2009), entire document	2, 13, 24
Y	WO 2004/042569 A2 (RAPP et al) 21 May 2004 (21.05.2004), entire document	3, 4, 10, 11, 14, 15, 18, 19, 22
Y	US 2007/0168676 A1 (FAYAD et al) 19 July 2007 (19.07.2007), entire document	5-7, 9, 16-20, 25-27
Y	US 2005/0125580 A1 (MADUKKARUMUKUMANA et al) 09 June 2005 (09.06.2005), entire document	8, 9, 20, 22, 28
A	US 2013/0081013 A1 (PLONDKE et al) 28 March 2013 (28.03.2013), entire document	1-28
A	US 2010/0229043 A1 (SAHA et al) 09 September 2010 (09.09.2010), entire document	1-28
A	US 2003/0158842 A1 (LEVY et al) 21 August 2003 (21.08.2003), entire document	1-28
A	US 4,757,438 A (THATTE et al) 12 July 1988 (12.07.1988), entire document	1-28

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"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

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"&" document member of the same patent family

Date of the actual completion of the international search

12 November 2013

Date of mailing of the international search report

02 DEC 2013

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

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