

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 March 2007 (01.03.2007)

PCT

(10) International Publication Number
WO 2007/024844 A3

(51) International Patent Classification:
G06F 13/00 (2006.01)

(21) International Application Number:

PCT/US2006/032747

(22) International Filing Date: 23 August 2006 (23.08.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/710,561 23 August 2005 (23.08.2005) US
11/466,367 22 August 2006 (22.08.2006) US

(71) Applicant (for all designated States except US): **SLT LOGIC LLC** [US/US]; 50 COMMONWEALTH AVENUE, Suite 504, Boston, MA 02116 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHARMA, Viswa** [US/US]; C/O SLT LOGIC LLC, 500 Commonwealth Avenue, Suite 504, Boston, MA 02116 (US). **HOLSCHBACH, Roger** [US/US]; C/O SLT LOGIC LLC, 50 Commonwealth Avenue, Suite 504, Boston, MA 02116 (US). **STUCK, Bart** [US/US]; C/O SLT LOGIC LLC, 50 Commonwealth Avenue, Suite 504, Boston, MA 02116 (US). **CHU, William** [US/US]; C/O SLT LOGIC LLC, 50 Commonwealth Avenue, Suite 504, Boston, MA 02116 (US).

(74) Agents: **PEDERSEN, Brad** et al.; PATTERSON, THUENTE, SKAAR & CHRISTENSEN, P.A., 4800 IDS CENTER, 80 South Eighth Street, Minneapolis, MN 55402-2100 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

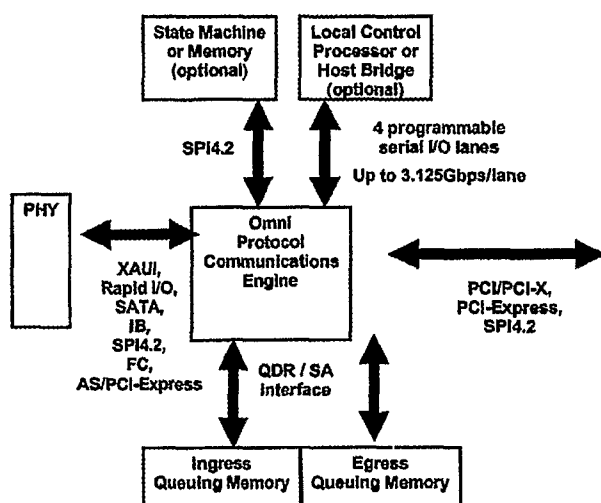
— with international search report

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

29 November 2007

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: OMNI-PROTOCOL ENGINE FOR RECONFIGURABLE BIT-STREAM PROCESSING IN HIGH-SPEED NETWORKS



(57) Abstract: A reconfigurable, protocol indifferent bit stream-processing engine, and related systems and data communication methodologies, are adapted to achieve the goal of providing inter-fabric interoperability among high-speed networks operating at speeds of at least 10 gigabits per second. The bit-stream processing engine operates as an omni-protocol, multi-stage processor that can be configured with appropriate switches and related network elements to create a seamless network fabric that permits interoperability not only among existing communication protocols, but also with the ability to accommodate future communication protocols. The method and systems of the present invention are applicable to networks that include storage networks, communication networks and processor networks.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US06/32747

A CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 13/00 (2007.01)

USPC - 710/100

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 13/00, 9/45, H04L 12/66, H04J 3/16 (2007 01)

USPC - 710/100, 56, 74, 711/71 1, 154, 205, 717/159, 164, 370/352, 401

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)

PatBase, MicroPatent

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X — Y	US 6,934,780 B2 (MODELSKI et al) 23 August 2005 (23 08 2005) entire document	1, 2, 4-9 3
Y	US 6,934,943 B2 (HUNDT et al) 23 August 2005 (23 08 2005) entire document	3
A	US 4,307,447 A (PROVANZANO et al) 22 December 1981 (22 12 1981) entire document	1-9
A	US 6,934,280 B1 (HO et al) 23 August 2005 (23 08 2005) entire document	1-9
A	US 6,934,817 B2 (ELLISON et al) 23 August 2005 (23 08 2005) entire document	1-9

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Date of the actual completion of the international search

21 May 2007

Date of mailing of the international search report

24 AUG 2007

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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