

(51) International Patent Classification:
H03M 7/40 (2006.01)(21) International Application Number:
PCT/IB2013/051647(22) International Filing Date:
1 March 2013 (01.03.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
13/421,640 15 March 2012 (15.03.2012) US(71) Applicant: INTERNATIONAL BUSINESS MA-
CHINES CORPORATION [US/US]; New Orchard
Road, Armonk, New York 10504 (US).(71) Applicant (for MG only): IBM UNITED KINGDOM
LIMITED [GB/GB]; PO Box 41, North Harbour, Ports-
mouth Hampshire PO6 3AU (GB).(72) Inventors: BRADBURY, Jonathan, David; IBM Corpora-
tion, 2455 South Rd, Poughkeepsie, NY 12601-5400
(US). GSCHWIND, Michael, Karl; IBM Corporation,
2455 South Rd, Poughkeepsie, NY 12601-5400 (US).
SLEGEL, Timothy; IBM Corporation, Mail Drop Ms-
p310, 2455 South Rd, Poughkeepsie, NY 12601-5400
(US).(74) Agent: LITHERLAND, David; IBM United Kingdom
Limited, Intellectual Property Law, Hursley Park,
Winchester Hampshire SO21 2JN (GB).(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))
- with amended claims (Art. 19(1))

Date of publication of the amended claims: 14 November 2013

(54) Title: FINDING THE LENGTH OF A SET OF CHARACTER DATA HAVING A TERMINATION CHARACTER

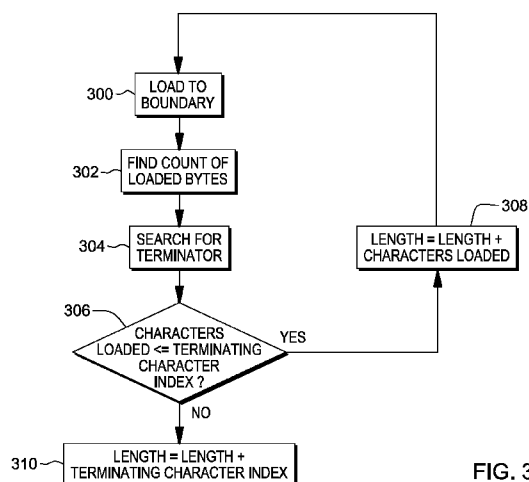


FIG. 3

(57) **Abstract:** The length of character data having a termination character is determined. The character data for which the length is to be determined is loaded, in parallel, within one or more vector registers. An instruction is used that loads data in a vector register to a specified boundary, and provides a way to determine the number of characters loaded, using, for instance, another instruction. Further, an instruction is used to find the index of the first termination character, e.g., the first zero or null character. This instruction searches the data in parallel for the termination character. By using these instructions, the length of the character data is determined using only one branch instruction.

