SG 9700910-1

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F 17/30, 15/16 — A1

(11) International Publication Number: **WO 96/07149**

(43) International Publication Date: 7 March 1996 (07.03.96)

(21) International Application Number: PCT/US95/10946

(22) International Filing Date: 30 August 1995 (30.08.95)

(30) Priority Data:
08/299,225 31 August 1994 (31.08.94) US

(71)(72) Applicants and Inventors: ROTH, Richard, K. [US/US]; 11560 195th Street, W., Lakeville, MN 55044 (US). POULOS, Jay, R. [US/US]; 4389 Croisan Ridge Way South, Salem, OR 97302 (US). KUNKEL, Douglas, F. [US/US]; 352 Wildwood Avenue, Piedmont, CA 94611 (US).

(74) Agents: KAPPEL, Cary, S. et al.; Kenyon & Kenyon, One Broadway, New York, NY 10004 (US).

(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

RTMP's

(54) Title: PARALLEL PROCESSING SYSTEM FOR TRAVERSING A DATA BASE

(57) Abstract

A parallel processing system (1) which traverses logical records of a transactional database (10) contained in two or more physical files (11, 12, 13). The files are traversed in accordance with view definitions specified by the user. Each view definition includes a set of processing parameters and may reference the physical files (11, 12, 13). The view definitions are transformed into entries stored in a logical table (600). The logical table is partitioned into sets (610, 620, 630) of entries, each set describing the view definitions relevant to a physical file. Each set is transformed into machine code instructions for a separate thread (950) of the parallel processing system (1). Each thread traverses its physical file in parallel with other threads traversing other physical files of the database (10). The view definitions specify the extract files and the formats to be used by the threads to store retrieved information.

