PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F	A2	(11) International Publication Number: WO 99/41652
		(43) International Publication Date: 19 August 1999 (19.08.99)

(21) International Application Number: PCT/SG98/00011

(22) International Filing Date: 13 February 1998 (13.02.98)

(71) Applicant *(for all designated States except US)*: NATIONAL COMPUTER BOARD, acting through ITS R & D DIVISION, THE INFORMATION TECHNOLOGY INSTITUTE [SG/SG]; 11 Science Park, Singapore Science Park II, Singapore 1177685 (SG).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: CHUAH, Yeow, Chong [SG/SG]; Information Technology Institute, 11 Science Park, Singapore Science Park, Singapore 117685 (SG).

(74) Agent: K. T. LIM & COMPANY; Tong Eng Building, 101 Cecil Street #25–06, Singapore 069533 (SG).

(81) Designated States: AU, DE, JP, SG, US.

Published
Without international search report and to be republished upon receipt of that report.

(54) Title: SYSTEM AND METHOD FOR HIGH SPEED, HIGH VOLUME TABULATION OF DATA

(57) Abstract

A system and method for high speed, high volume tabulation of data using a personal computer. The method involves two sub–processes, pre–processing and tabulation. In pre–processing, the data field is separated into individual field files, and each distinct value in each of the discrete fields is encoded with an incremental numerical code unique for that field. Tabulation of fields involves the creation of a one–dimensional result array in which each cell will contain the result of tabulation of each combination of distinct field values. The encoded files for all requested fields is then read and the relevant cell for each record is incremented, the relevant cell for each record being identified using a mapping algorithm based on the codes of the fields. This method and system allows tabulation to be done at high speed.