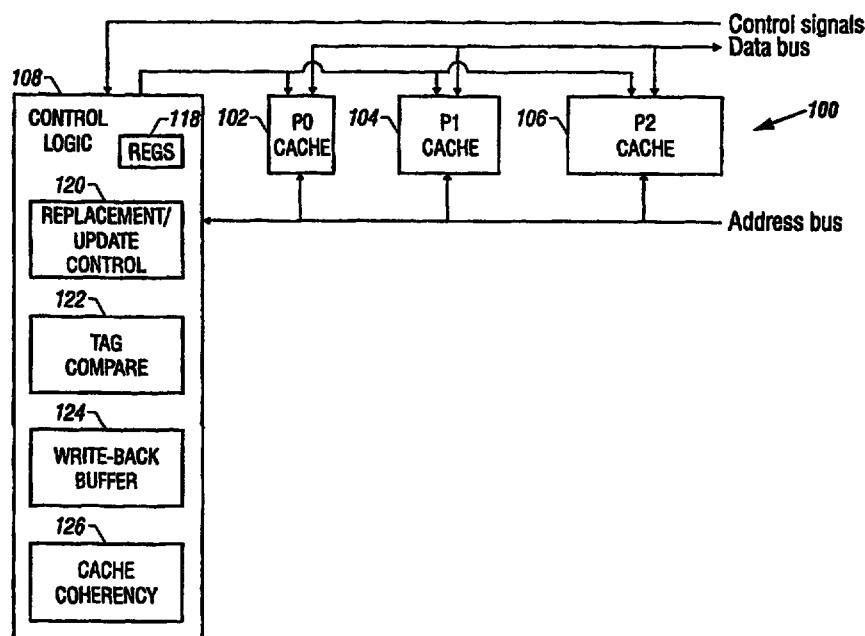




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : G06F 12/08	A1	(11) International Publication Number: WO 00/34870 (43) International Publication Date: 15 June 2000 (15.06.00)
(21) International Application Number: PCT/US99/21249 (22) International Filing Date: 22 September 1999 (22.09.99) (30) Priority Data: 09/207,278 8 December 1998 (08.12.98) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 09/207,278 (CON) Filed on 8 December 1998 (08.12.98) (71) Applicant (for all designated States except US): INTEL CORPORATION [US/US]; 2200 Mission College Boulevard, Santa Clara, CA 95052 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): CAI, Zhong-ning [CN/US]; 3219 N.W. Chapin Drive, Portland, OR 97229 (US). NAKANISHI, Tosaku [JP/US]; 2048 Walnut Avenue, Saratoga, CA 95070 (US). (74) Agent: TROP, Timothy; Trop, Pruner, Hu & Miles, P.C., Suite 100, 8554 Katy Freeway, Houston, TX 77024 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: **BUFFER MEMORY MANAGEMENT IN A SYSTEM HAVING MULTIPLE EXECUTION ENTITIES**

(57) Abstract

A system includes multiple program execution entities (e.g., tasks, processes, threads, and the like) (258, 260) and a cache memory (100) having multiple sections (102, 104, 106). An identifier is assigned to each execution entity. An instruction of one of the execution entities (258, 260) is retrieved and an associated identifier is decoded. Information associated with the instruction is stored in one of the cache sections (102, 104, 106) based on the identifier.