



(51) International Patent Classification:
G06F 9/45 (2006.01) **G06F 9/24** (2006.01)
G06F 9/30 (2006.01)

(21) International Application Number:
PCT/US2011/040406

(22) International Filing Date:
14 June 2011 (14.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/815,023 14 June 2010 (14.06.2010) US

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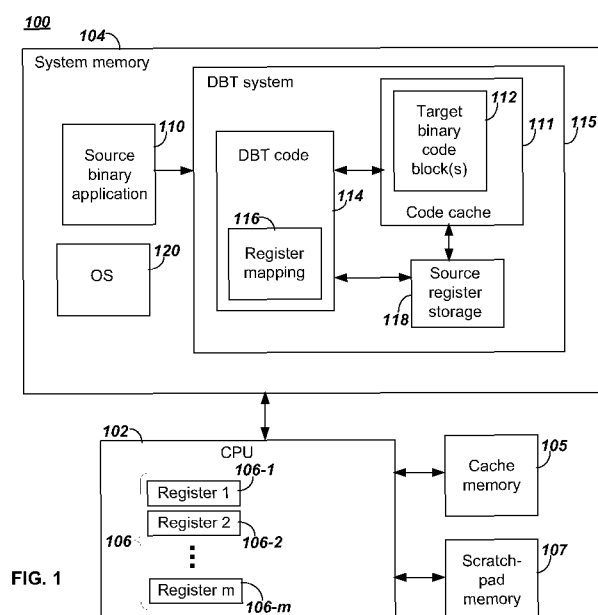
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: REGISTER MAPPING TECHNIQUES FOR EFFICIENT DYNAMIC BINARY TRANSLATION



(57) Abstract: Generally, the present disclosure provides a system and method for mapping registers from a system with more registers to a system with fewer registers. Regions may be formed that include one or more blocks of code with relatively frequent register accesses. The most frequently accessed source registers may be mapped to target registers. Each block in the region may be bounded by a prologue and at least one epilogue. The prologue may be configured to implement register mapping and the epilogue(s) may be configured to manage program flow from a block in the region to another block in the region or to a block not in the region.

