(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
25 September 2025 (25.09.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/199429 A1

(51) International Patent Classification:
G06F 9/50 (2006.01) *G06F 9/32* (2018.01)
G06F 15/78 (2006.01) *G06F 1/32* (2019.01)
G06F 9/30 (2018.01)

(21) International Application Number:
PCT/US2025/020901

(22) International Filing Date:
21 March 2025 (21.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/569,035 22 March 2024 (22.03.2024) US
18/773,632 16 July 2024 (16.07.2024) US

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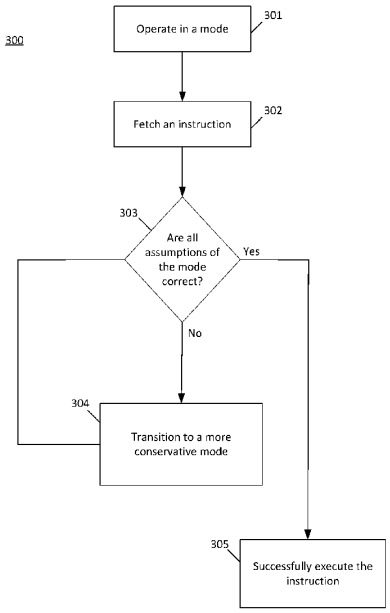
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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,

(54) Title: PROCESSOR WITH ONE OR MORE PROGRESSIVE CONSERVATIVE EXECUTION MODES

FIG. 3



(57) Abstract: Systems and methods related to a processor with one or more progressive conservative execution modes and an aggressive mode are disclosed herein. The aggressive execution mode makes a set of assumptions regarding the workloads for the processor, while each conservative execution mode is predicated on a smaller set of assumptions than the aggressive mode. The conservative execution modes may be progressive in that each progressive conservative execution mode is associated with a different quantity of assumptions. While operating in the aggressive mode, the processor can realize certain benefits in terms of speed of execution or reduced resources needed to execute the workloads. While executing instructions in an aggressive execution mode, a processor can detect that an assumption is incorrect for at least one instruction and can accordingly transition to a conservative execution mode (that may not make that assumption) to execute the instruction.

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DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*