

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 October 2001 (11.10.2001)

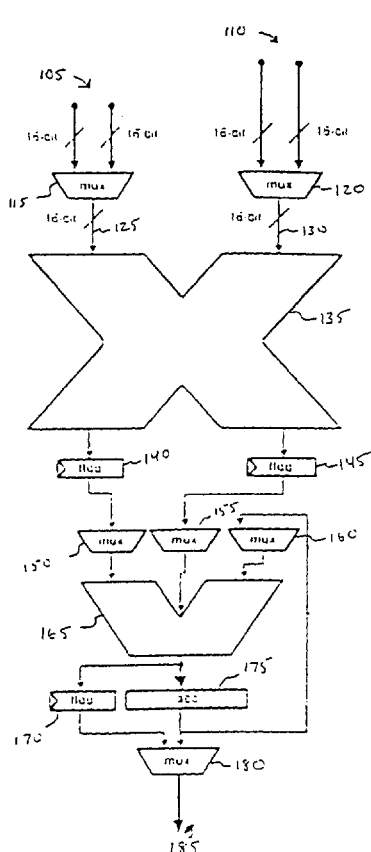
PCT

(10) International Publication Number
WO 01/75635 A2

- (51) International Patent Classification⁷: **G06F 15/78**, 9/302, 7/52
- (21) International Application Number: PCT/US01/10602
- (22) International Filing Date: 2 April 2001 (02.04.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/541,116 31 March 2000 (31.03.2000) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 09/541,116 (CON)
Filed on 31 March 2000 (31.03.2000)
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

[Continued on next page]

(54) Title: DSP EXECUTION UNIT FOR EFFICIENT ALTERNATE MODES OF OPERATION



(57) Abstract: In one embodiment, a digital signal processor (DSP) processes both n-bit data and (n/2)-bit data. The DSP includes multiples processing paths. A first processing path processes n-bit data. A second processing path processes (n/2)-bit data. The multiple processing paths may be established using multiple components or may share components. When the processing paths share components, only one of the processing paths may be used at a time.

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CZ, DE, DK, DM, DZ, 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, MA, MD, MG, MK, MN, MW, MX, MZ, 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.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

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