

Title (en)
A DATA PROCESSING DEVICE WITH DISTRIBUTED REGISTER FILE

Title (de)
DATENVERARBEITUNGSEINRICHTUNG MIT VERTEILTEM REGISTERSPEICHER

Title (fr)
DISPOSITIF DE TRAITEMENT DE DONNEES A FICHIER REGISTRE REPARTI

Publication
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Application
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Priority
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Abstract (en)
[origin: WO0152060A1] The present invention introduces data path architectures of processing devices with a distributed register file. These data path architectures are obtained by applying a set of building rules to a set of building blocks. The number of register files corresponds to the number of processing device inputs and processing element outputs. Specific rules for connecting the register files to the processing elements via distributed crossbars are given. Arrays of processing devices are considered as well. Data path architectures of processing devices used in these arrays slightly differ from those of stand alone processing devices.

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