Title (en)

CONCURRENT PROCESSING FOR AN EVENT-BASED SYSTEM

Title (de)

SIMULTANE VERARBEITUNG FÜR EIN EREIGNISSENBASIERTES SYSTEM

Title (fr)

TRAITEMENT SIMULTANE POUR UN SYSTEME FONDE SUR DES EVENEMENTS

Publication

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Application

EP 99972323 A 19991112

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Abstract (en)

[origin: WO0029942A1] According to the invention multiple shared-memory processors (11) are introduced at the highest level or levels of a hierarchical distributed processing system (1), and the utilization of the processors is optimized based on concurrent event flows identified in the system. According to a first aspect, so-called non-commuting categories (NCCs) of events are mapped onto the multiple processors (11) for concurrent execution. According to a second aspect of the invention, the processors (11) are operated as a multiprocessor pipeline, where each event arriving to the pipeline is processed in slices as a chain of internal events which are executed in different stages of the pipeline. A general processing structure is obtained by what is called matrix processing, where non-commuting categories are executed by different sets of processors, and at least one processor set operates as a multiprocessor pipeline in which an external event is processed in slices in different processor stages of the pipeline.

IPC 1-7

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