PARALLEL PROCESSING

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"Parallel Processing" published by G. Goos and J. Hartmonis in Springer Verlag comprises the papers of the Conference of computers on parallel processing held in Sagamore.

The conference took place on 10 sections having as objectives: computation algorithms, control systems, the architecture of component systems and mechanisms, the architecture of parallel processors for air traffic control, etc.

In the paper "The Structure of Control in Parallel Processing". Subramanya K. Kastry of Pennsylvania University dwells on the parallelism of the following type: at least one processor is in the critical section at any moment and if a processor wants to enter the critical section, it can be possible allowed.

In the paper "A Language for the Processing of Massives" John G. Marzolf of Syracusa University presents a dialect of the APL programming language which was implemented for a STARAN associative processor.

In the paper "A Fundamental Theorem of Asynchronous Parallel Computation, Robert M. Keller (Princeton University) presents an abstract model for which some local properties are proved and the existence of the confluence global property is outlined

In the paper "Parallel Processing by Virtual Instructions", Cecil Kaplinsky proposes a certain structure for a computation system with multiprocessing multiprogramming.

"Parallel Processing" includes 35 papers presented and in only about 400 pages it manages to replace the absence from the conference of those concerned.

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