

Abstracts

TLM Modeling Using Distributed Computing

P.J. Parsons, S.R. Jaques, S.H. Pulko and F.A. Rabhi. "TLM Modeling Using Distributed Computing." 1996 Microwave and Guided Wave Letters 6.3 (Mar. 1996 [MGWL]): 141-142.

Distributed computing techniques offer the potential to significantly reduce the run time of transmission-line-matrix (TLM) calculations. This letter describes the implementation of a TLM model of a two-channel waveguide distributed across a network of workstations using parallel virtual machine (PVM). The methods for distributing the TLM matrix across the work-stations and the effect on performance of different approaches are described and discussed.

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