SEMANTIC ELEMENTS FOR PARALLEL COMPUTING IN ORB(M)*

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Abstract The behaviour of distributed object frameworks usually cannot be influenced by their users, thus they can hardly be adapted to the actual application being developed and to the actual hardware environment. In this paper we present our flexible approach of extensible Object Request Broker middlewares. Our model of *Pluggable Semantic Elements (PSE)* allows the user to implement and arbitrarily combine the well-defined functional components of invocation semantics. The PSE model is implemented by our *ORB(M)* framework, which allows the user to exploit the special characteristics of the application and the actual computing environment.

Keywords: distributed object computing, invocation semantics, multicast communication, PVM

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