DEVELOPMENT OF WEB BASED OPTIMIZATION SERVICE FOR DISTRIBUTED HETEROGENEOUS FRAMEWORKS

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Abstract. The increased interest on processing large scale & heterogeneous problems in distributed environments creates the need for more flexible and easily accessed software tools. In this paper we present the development of a web based optimization tool that can support remotely the solution of specific optimization problems. By using web services, the optimizer can publish its function to the rest of the world and to different operating systems using the XML & SOAP technologies. The first prototype was successfully tested using typical optimization problems and optimization tools developed in MatLab®. The final implementation of the service will be developed under the iProd framework to handle simulation workflow optimization in the manufacturing domain, in a distributed and heterogeneous network of collaborating tools.

REFERENCES


