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Data Services Geared to Client Needs

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Access to large amounts of distributed data is fundamental for the development of future scientific and engineering applications. There are many research issues related to efficient access to large databases in distributed environments. These environments are also known as Data Grids. We are addressing the problem of matching the data services with client needs in data grid environments. In this context, the clients are scientific communities that typically analyze data from many different points of view. In spite of this, data services are defined by data providers with little consideration about the specific ways in which different clients may want to access the data. Our approach consists in creating a secure infrastructure for allowing clients to pre-process data on the server side. As a result of the data processing on the server side, clients install their own data services for later remote processing.