

AMGA Metadata catalogue service for managing mass data of high-energy physics

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Huge amounts of data are produced in high-energy physics experiments. We need to use a metadata catalogue service to manage these data and files effectively. AMGA is a gLite-metadata catalogue service designed to offer efficient use to metadata for files stored on the Grid. AMGA supports the various databases(Oracle, PostgreSQL, MySQL, SQLite) connection and APIs of the various programming languages(C++, Java, Python, Perl). And AMGA provides not only the easy interface what look like linux file system but also the Native SQL. This properties of AMGA mean that the almost of all High-energy physics experiments can use AMGA very easily. And we can share the data using the special features of AMGA that are replication and federation. For that reason, the Belle II Data Handling system has used AMGA. In this paper, we describe AMGA's properties in detail and offer cases that use AMGA in each programming language.

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