Study on efficient data retrieval and distribution from enormous science database

Makoto Obayashi[1]; Yoshihiro Takata[1]; Yoshiya Kasahara[1]; Yoshitaka Goto[1]

[1] Kanazawa Univ.

We are now constructing an enormous database system of the VLF wave data observed by the Akebono satellite. The total amount of the data will finally become more than 10 terabytes. In the present paper, we study the several methods by which the datasets are efficiently searched and distributed. We also introduced a protocol named SOAP in order to realize the communication between database server and web server using XML.