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Design Principles of a Web Interface for Monitoring Tools

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A monitoring tool for complex Grid systems can gather a huge amount of information that have to be presented to the users in the most comprehensive way. Moreover different types of consumers could be interested in inspecting and analyzing different subsets of data. The main goal in designing a Web interface for the presentation of monitoring information is to organize the huge amount of data in a simple, user-friendly and usable structure. One more problem is to consider different approaches, skills and interests that all the possible categories of users have in looking for the desired information.

Starting from the information architecture guidelines for the Web, it is possible to design Web interfaces towards a better user experience and to deal with an advanced user interaction by exploiting the most recent Web standards.

In this paper, we present a number of principles for the design of Web interface for monitoring tools that provide a wider, richer range of possibilities for what concerns the user interaction. These principles are based on an extensive review of the current literature in Web design, on the experience with the development of the GridICE monitoring tool and on an analysis of the design choices of other monitoring systems. The described principles can drive the evolution of the Web interface of Grid monitoring tools.

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