

CONFIGURABLE PORTLET (CONFLET) IN CLUSTERGRID ENVIRONMENT

*Dániel Pasztuhov, dani@iit.bme.hu
Imre Szeberényi, PhD, szebi@iit.bme.hu
BME IIT*

One of the most promising technologies of these days, Grid, is expected to make a so revolutionary break-through as the appearance of World Wide Web did in early 90s. The early Grid systems provided only generic and mostly difficult-to-use user interface. Combination of Grid with the nowadays also very popular Java/J2EE-based portal technology flatters with robust and efficient solutions in the area of developing user interfaces of grid applications.

The reason of creation of the Conflet system is that users need user interfaces which are not generic but are designed for their application, and want to access it from any point of the internet without installing anything to the used computer. The Conflet system takes into account the aspects of developers beyond the users' demand of convenience.

With the configurable portlet, which is based on the GridSphere Portal Framework, the application developers can make portal pages, which satisfy the special needs of the users' applications, by calling high-level commands, i.e. job submission, file upload or download. Development of the portal pages is done by parameterizing the configurable portlet.

The article introduces the main features of the developed Conflet system and those simple solutions, with that the grid user interface of an arbitrary application can be made without the modification of the computing software. The auxiliary portlets, the help of which the whole life cycle can be traced, will also be overviewed.

We consider especially important the presentation of how the Conflet system accommodates to the ClusterGrid environment, and how Conflet helps wide-spread utilization of ClusterGrid. With the help of an example application – sizing of concrete bars – the practical use of the system will be proven.

We show finally, that Conflet is also capable to complete other command line applications with web user interface.