## CYBERINFRASTRUCTURE - POSTER #1

## Runtime Support for NCCP's Interoperability Software Framework

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The NCCP is currently providing climate data to researchers. The central data repository of the NCCP enables a more efficient use of technological and scientific resources than each scientist taking care of their own data. Among the planned enhancements and new data processing capabilities for the NCCP, we believe that the NCCP can provide another service to the research community—namely that of providing online simulation services through the creation and execution of scientific workflows. Part of this service has already been implemented and will soon be released to a larger audience for evaluation. This poster describes part of an implementation of a key software component, called a job manager, which is used to execute the scientific workflows. Silverlight, .Net, WSDL, SOAP, and Graphviz have all been used to implement this job manager in order to represent the current progression status of a simulation and give the user control of the simulation. As our society is increasingly using mobile devices, the job manager was created in a way to prepare for portability to mobile devices in the future.