

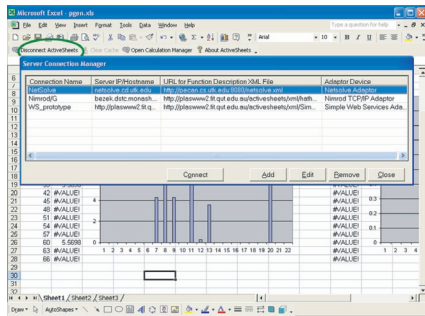
# ACTIVESHEETS

<http://www.dstc.edu.au/Research/activesheets-ov.html>

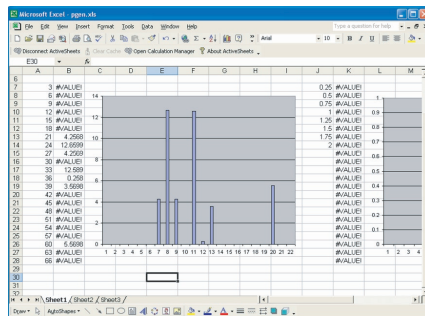
# NETSOLVE

<http://icl.cs.utk.edu/netsolve/>

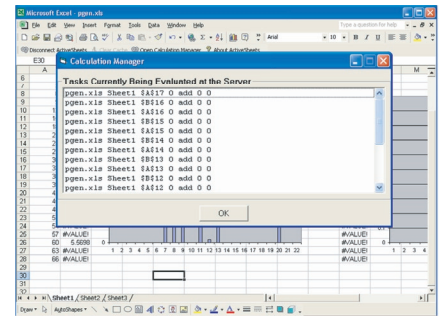
NetSolve/ActiveSheets aims to bring powerful computational resources to Excel spreadsheet users by integrating ActiveSheets with NetSolve as its computing backend.



ActiveSheets adaptor picks NetSolve as computing backend



Submitting the job



Calculation manager displays the current tasks which are being processed at the backend server

## ACTIVESHEETS

ActiveSheets is a component based Excel spreadsheet interface for specifying computational experiments. Leveraging the power of .NET, ActiveSheets plugs into NetSolve bringing the power of scientific and grid computing to Microsoft Excel®.

## NETSOLVE & .NET

Furthering the goal of NetSolve, the NetSolve .NET interface aims to incorporate scientific & grid computing into the world of .NET. Currently in prototype stages, the .NET interface communicates with NetSolve through a COM based dll. This type of design is a very limiting factor when creating web services and other unique .NET applications. Because of these limitations, future work will center around creating a completely managed dll with no legacy code.

## NETSOLVE

The purpose of NetSolve is to create the middleware necessary to provide a seamless bridge between the simple, standard programming interfaces and desktop Scientific Computing Environments (SCEs) that dominate the work of computational scientists and the rich supply of services supported by the emerging Grid architecture, so that the users of the former can easily access and reap the benefits (shared processing, storage, software, data resources, etc.) of using the latter.

### FUTURE WORK

- Create native .NET interface to NetSolve
- Integrate NetSolve and ActiveSheets using Web Services



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SUPPORT FROM Microsoft