
Subject: Re: new tool in PandaRoot: mpiTools

Posted by [Johan Messchendorp](#) on Mon, 05 May 2008 18:39:24 GMT

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Hi all,

For those interested. I made some significant updates of the MPI tools. Checkout the README file in ../pandaroot/PndTools/mpiTools/ to see what this tool can do for you.

Some of the updates are:

- * Optimized boss-worker handshaking mechanism
- * Improved error handling: failure results are send back to boss process, option to do a validation of the results
- * A more flexible job description file with the option of user-defined parameters (dynamic)
- * Added the option to download input data (remote or local) prior to the job
 - * execution scripts can be stored remotely (copied automatically)
- * Bug fixes and code tested/debugged with MPICH and OPENMPI on PBS cluster in Groningen and on various multi-core platforms.
- * Flexible and improved run numbering
- * Added extensive example scripts with validation
- * Added statistics output (run time)
 - * Job merging improved by using a BARRIER synchronization mechanism. Example scripts are included in the repository.
 - * Checks on disk storage and number of processes still pending with automatic hold

Johan.
