

## Configuring the system ParaLab for carrying out real parallel experiments on high performance cluster

Follow these steps for *configuring* the system ParaLab to carry out experiments on remote high performance cluster:

1. Install Internet Information Server (IIS) and Microsoft .NET Framework 2.0 on main Compute Cluster Server (CCS) computer
2. Unpack ParaLabWebService.zip archive to any folder
3. Create "ParaLab" Virtual Directory in IIS. Point this directory to the folder with content of ParaLabWebService.zip archive (unpacked on the step 2)
4. Set ASP.NET 2.0 to execute ASP-scripts in ParaLab Virtual Directory
5. Set the following values to parameters in **Web.Config** file:
  - 5.1. **password** – remote access password, the same password has to be set in the ParaLab system in the dialog window "Connection"
  - 5.2. **numprocessors** – number of available processors in the cluster
  - 5.3. **CCPUserName** – User Login which is used for submitting jobs to the CCS scheduler
  - 5.4. **CCPPassword** – User Password which is used for submitting jobs to the CCS scheduler
  - 5.5. **CCPSharedFolder** – Shared folder for storing executable files
  - 5.6. **CCPHosts** – list of available hosts, host name have to be separated with commas without any spaces
6. Create the "**progs**" subfolder in the CCPSharedFolder directory and unpack ParaLabWebServiceProgs.zip to this subfolder

Follow these steps to *carry out an experiment* on the cluster:

1. Execute the command **System -> Cluster**
2. Execute the command **System -> Connection**
3. Set the connection parameters (Address of Web-service and Password from step 5.1)
4. Set the experiment parameters (select the problem, method and their parameters)
5. Start the experiment by the command **Experiments -> In active window**