WebPBS Quick Reference



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1 How to login

The URL is <u>http://ismaltx.ism.ac.jp/pbs/index.php?lang=english</u> The following screen is displayed by accessing this URL.



Type your username and password for ismaltx and click the "login" button. If the login is successful, the screen for referring job status will be displayed.

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2 Job Status

When you click the "JobStatus" button, the screen for referring the jobs appears, and you can refer the status of the hosts, jobs, queues and the amount of CPU and the memory used.

The status of the Execution hosts is described as follows:

Execution host	offline (in maintenance) down (out of order)	free (In empty, you can execute new jobs.)	Full / busy (In full state, new jobs are waiting for the vacant state.)
Free CPUs / Total CPUs	Display the number of free CPUs against. total CPUs for each host.		
Queue Property	The job will be executed at the host which has the same property for each queue's (in job information).		
Jobs (Job ID/Parallel)	When Job ID is 200 and parallelization(ncpus) are 8 for example, it is displayed as 200/8.		

The status of jobs is described as follows:

Job ID	Unique number in PBS supercluster. (When you click this, you can see the details of the job.)	
UserName	User Name of the Altix systems.	
Queue	Name of a Queue to which you want to submit a job.(Each queue could specify different execution hosts and resource limits)	
Session ID	The ID which manages all processes in the job.	
Hosts	The number of execution host.(When waiting, it number are the same as that of parallel executins.	
Para	The number of parallel executions you specified (you cannot	

	excess the maximum number defined in the queue.)	
Stat	The status of the job <u>Regular status</u> R : Job running Q : Job waiting E : In progress of the termination <u>The status for error or administration</u> W : File transfer error has occured. S : Job suspension with unknown reason H : job suspension with ghold	
Elapsed	Current elapsed time for the runnning job	
Memory	The maximum memory size used by the job	
Running at	A host which the job is running on	
Delete	For deleting your job	

The status of queues is described as follows:

Queue	Name of a Queue to which you want to submit a job (Each queue could specify different execution hosts and resource limits.		
Number of Jobs	For the Total(Tot), Wait, Run and Transfer(Trn) states.		
Qsub (Submission enabled), go(Running Enabled)	When qsub shows , you can submit your job. When go shows , your job will be actually allocated to the execution host.		
Max Jobs	 Tot : maximum number of the submitted jobs per queue (including running jobs) Run : The maximum number of the running job Group : The maximum number of the running job per group. User : The maximum number of the running job per user 		
Resource limit	Maximum parallel execution (Para), Maximum elapsed time(Elapsed) and Maximum memory usage(Memory) for each job		
Property	The job is executed in the same property as that of its host's.		

The status of the PBS server is described as follows:

interactive	Resources for login usage via telnet, ssh and so on. (Including system resources.)
batch(PBS)	Resources used by all PBS Jobs.

3 Job Submission

When you click the "Job Submission" button, the screen for submitting jobs is displayed.



The following picture is the details of each menu. The name of the current directory and the list of directories are displayed under the "Job Submission", so move to the directory you want to submit job.



If you want to create a new directory, you can create it by clicking the "Create Directory" button.

Subsequently, please input patrameters and script of PBS. After finishing the configulation, click the "Submit Jobs(qsub)" button. The job will be submitted and the script file will be created based on the configulation and the script name is created with the job name and job ID.

The PBS parameters are described as follows:

Jobname	Since you see it in "job status" output, it is recommended that the name should be something related to the job contents (within 15 alphanumeric characters.)		
Submission queue name	Select the queue in the queue list on the bottom of the screen.		
The number of parallel execuions	Specify the number of parallel. It must be the same or below the number of parallel of the queue. Default is the number of parallel of the queue.		
Output file	Specify the conosolidation format for the standard output/error files of the job.		
Mail transfer	When there is a server failure or your job has reached the resource limits, the notification is sent to the user via e-mail. It is possible to notify the job start and finish time to the user.		
Mail to	Optionally, transfer the message of the job not only the local account but also to specified mail address.		
Project name (Account name)	Specify a project name when you collect project account statistics per user. No need to specify here if your site does not use projects.		
At error (In accident)	When execution server failure occurs, the job being executed is terminated and deleted from the queue. If you check "requeue" checkbox in advance, the jobs could be requeued from the beginning after the server recovery.		

4 File forwarding, File editing

There are "PBS Local files" tab, "File Servers" tab and "Your Client" tab in the lower part of the screen. You can modify files on the servers, send a file from your PC terminal and configure the file forwarding from other file servers. <u>On the Altix system, you need not to use the "File Servers" and "Stagein" checkboxes.</u>

PBS Local Files

The list of files (file name, size, last modification date) in the current directory is displayed.

Attention) If you are using Internet Explorer, the dialog which asking whether you want to save the file or not will be appeared. If you click the "Open" button, some error like the contents of the file not displayed will be occurred. Before opening the file, save the file.

If you are using Netscape Navigator, the dialog which asks whether you want to save or not. In case of right ckicking, it attempts to save the file with the name "down.php" as the default. There are no problems in the file itself, so please change the name of it.

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You can edit the file that is smaller than 1MB. You can edit cofigulation files and so on.

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The file which has the icon is a PBS script. You can use PBS job scripts which was used in the past as a template. When you click the icon, you can configure the parameters based on the files. You may use this function when you create a new job based on the previously used jobs.

Your Client

You can transfer files from the client PC/WS the browser is running on. Max 10 files, 4MB in total.

5 Using templates

When you submit jobs with similar parameters, you can create template for PBS parameters and scripts.

When you click the "Register" button after you set the parameters, the new template is registered to the template list. Save your template files under pbstmpl directory in your home directory.



The name of template which is registered by user is displayed in black.

There are other templates of which names are displayed in red. These templates are called system templates and you can input parameters which specialized for some applications other than scripts in the right part of PBS configulation screen.

	Template	Select template	•
	Appl	Select template	
		sgiadm : BasicScript	
New Template 📘		sgiadm : sample1	
		sgiadm : testtemp	
		BasicScript	

6 Job results

When you want to refer to the list of the results, click the "Job Results" button. You can not only refer to the list of jobs, also can download or delete files. When you access the "Job Result", the list of max 20 jobs which submittd recently.

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Submitted job id, the directory where you submit the job and the icon of job script are displayed. When you want to download the file, please click the directory name or change current directory by using directory navigation in the left side of the screen.

Click the file name in the file list when you want to download.

And please check the checkboxes of the files or directories and click the "Delete" button when you want to delete them.

When you click the "Compression(tar.gz)" button, the file is compressed with the name of "pbsweb.tar.gz".