

# Cheat Sheet *qpy* The Queue system of Pradipta and Yuri made in Python - version 0.0, 2018

Basic usage: `qpy <command> [options]` Use TAB for completion and ? TAB TAB to display a help

Command	Options	Explanation
restart		(re)starts the background environment for <i>qpy</i>
sub	<code>[-n &lt;# cores&gt;] [-m &lt;memory, in GB&gt;] &lt;command&gt;</code>	submits the command <code>&lt;command&gt;</code> , optionally giving the number of cores and memory
status		shows the status of nodes and users
check	<code>[&lt;status&gt;] [&lt;dir&gt;] [&lt;job IDs&gt;]</code>	lists ...
clean	<code>[&lt;status&gt;] [&lt;dir&gt;] [&lt;job IDs&gt;]</code>	cleans ...
kill	<code>[&lt;status&gt;] [&lt;dir&gt;] [&lt;job IDs&gt;]</code>	kills ...
config	<code>[checkFMT &lt;pattern&gt;]</code> <code>[colour &lt;false true&gt;]</code> <code>[colourScheme &lt;colour 1&gt; ... &lt;colour 5&gt;]</code>	shows the pattern used for check, or sets it to <code>&lt;pattern&gt;</code> turns the output of the <code>check</code> command coloured ( <code>true</code> ) or disable the colours ( <code>false</code> ) shows the colours used in the output of the <code>check</code> command, or sets them
ctrlQueue	<code>pause</code> <code>continue</code> <code>jump &lt;job IDs&gt; &lt;target&gt;</code>	pauses the submission of jobs continues the submission of jobs moves jobs with IDs in <code>&lt;job IDs&gt;</code> to <code>&lt;target&gt;</code> , that can be a ID, <code>begin</code> , or <code>end</code>
tutorial	<code>[&lt;keyword&gt;]</code>	shows the tutorial, at <code>&lt;keyword&gt;</code>
finish		finishes the background environment for <i>qpy</i>

Possible job statuses	Possible modifiers to be used in <code>&lt;pattern&gt;</code> for <code>config checkFMT</code>
queue Job in the queue, not running yet	%j job ID
running Job being executed	%s job status
done Job has finished	%c command used to submit the job
undone Job was removed from the queue before running	%d working directory of the job
kill Job was killed when running	%n node allocated for the job
	%N number of cores of the job
	%Q time when the job was submitted
	%S time when the job started to run
	%E time when the job has finished
	%R the time in queue, or the running time, or the total running time (depending on the status of the job)

Syntax for sets of job IDs  
`<initial ID>-<final ID>,<ID1> <ID2>`  
 Example: `10-14,4,30 20`, means  
 10, 11, 12, 13, 14, 4, 30, and 20

Environment variables
QPY_JOB_ID job ID
QPY_NODE node where job is running
QPY_N_CORES number of requested cores
QPY_MEM requested memory