User commands

Viewing information about your cluster

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Command	Description		
bhosts	Displays hosts and their static and dynamic resources		
bmgroup	Displays information about host groups and compute units		
blimits	Displays information about resource allocation limits of running jobs		
bparams	Displays information about tunable batch system parameters		
bqueues	Displays information about batch queues		
busers	Displays information about users and user groups		
Ishosts	Displays hosts and their static resource information		
Isid	Displays the current LSF version number, cluster name and master host		
	name		
Isinfo	Displays load sharing configuration information		
Isload	Displays dynamic load indices for hosts		

Monitoring jobs and tasks

Command	Description	
bapp	Displays information about jobs attached to application profiles	
bhist	Displays historical information about jobs	
bjdepinfo	Displays dependency information about jobs.	
bjgroup	Displays information about job groups	
bjobs	Displays information about jobs	
bpeek	Displays stdout and stderr of unfinished jobs	
bsla	Displays information about service class configuration for goal-oriented service-level agreement (SLA) scheduling	
bstatus	Reads or sets external job status messages and data files	

Submitting and controlling jobs

Command	Description	
bbot	Moves a pending job relative to the last job in the queue	
bchkpnt	Checkpoints a checkpointable job	
bgadd	Creates job groups	
bgdel	Deletes job groups	
bkill	Sends a signal to a job	
bmig	Migrates a checkpointable or rerunnable job	
bmod	Modifies job submission options	
brequeue	Kills and requeues a job	
bresize	Releases slots and cancels pending job resize allocation requests.	
brestart	Restarts a checkpointed job	
bresume	Resumes a suspended job	
bstop	Suspends a job	
bsub	Submits a job	
bswitch	Moves unfinished jobs from one queue to another	
btop	Moves a pending job relative to the first job in the queue	

bsub command

Syntax

bsub [options] command [arguments]

Options	
Option	Description
-ar	Specifies the job is autoresizable
-В	Sends email when the job is dispatched
-H	Holds the job in the PSUSP state at submission
-I I -lp I -ls	Submits a batch interactive joblp creates a pseudoterminalls creates a pseudo-terminal in shell mode.
-K	Submits a job and waits for the job to finish
-N	Emails the job report when the job finishes
-r	Makes a job rerunnable
-ul	Passes operating system user shell limits to the execution host (UNIX and Linux only)
-x	Exclusive execution
-app application_profile_name	Submits the job to the specified application profile
-b begin_time	Dispatches the job on or after the specified date and time in the form [[month:]day:]:minute
-C core_limit	Sets a per-process (soft) core file size limit (KB) for all the processes that belong to this job
-c cpu_time[/host_name \ / host_model]	Limits the total CPU time the job can use. CPU time is in the form [hour:]minute
-cwd "current_working_directory"	Specifies the current working directory for the job.
-D data_limit	Sets per-process (soft) data segment size limit (KB) for each process that belongs to the job
-E "pre_exec_command [arguments]"	Runs the specified pre-exec command on the execution host before running the job
-Ep "post_exec_command [arguments]"	Runs the specified post-exec command on the execution host after the job finishes
-e error_file	Appends the standard error output to a file
-eo error_file	Overwrites the standard error output of the job to the specified file
-F file_limit	Sets per-process (soft) file size limit (KB) for each process that belongs to the job
-f "local_file op [remote_file]"	Copies a file between the local (submission) host and remote (execution) host. <i>op</i> is one of >, <, <<, ><,
-G user_group	Associates job with a specified user group
-g job_group_name	Associates job with a specified job group
-i input_file I -is input_file	Gets the standard input for the job from specified file
-J "job_name[index_list] %job_slot_limit"	Assigns the specified name to the job. Job array Index_list has the form start[-end[:step]], and %job_slot_limit is the maximum number of jobs that can run at any given time.
-k "chkpnt_dir [chkpnt_period] [method=method_name]"	Makes a job checkpointable and specifies the checkpoint directory, period in minutes, and method
-L login_shell	Initializes the execution environment using the specified login shell
-M mem_limit	Sets the per-process (soft) memory limit (KB)

Option	Description
-m "host_name [@cluster_name][[!] +[pref_level]] host_group[[!] +[pref_level]] compute_unit[[!] +[pref_level]]"	Runs job on one of the specified hosts. Plus (+) after the names of a host or group indicates a preference. Optionally, a positive integer indicates a preference level with higher numbers indicating a greater preference.
-n min_proc[,max_proc]	Specifies the minimum and maximum numbers of processors required for a parallel job
-o output_file	Appends the standard output to a file
-oo output_file	Overwrites the standard output of the job to the specified file
-P project_name	Assigns job to specified project
-p process_limit	Limit the number of processes for the whole job
-Q "[exit_code] [EXCLUDE(exit_code)]"	Specifies automatic job requeue exit values and exclusive job requeue exit values
-q "queue_name"	Submits job to one of the specified queues
-R "res_req" [-R "res_req"]	Specifies host resource requirements
-rnc resize_notification_cmd	Specifies full path of an executable invoked on the first execution host when the job allocation is modified
-S stack_limit	Sets a per-process (soft) stack segment size limit (KB) for each process that belongs to the job
-s signal	Send signal when a queue-level run window closes
-sla service_class_name	Specifies the service class where the job is to run
-sp <i>priority</i>	Specifies user-assigned job priority allowing users to order their jobs in a queue
-T thread_limit	Sets the limit of the number of concurrent threads for the whole job
-t term_time	Specifies the job termination deadline in the form [[month:]day:]hour.minute
-U reservation_ID	Use advance reservation created with brsvadd
-u mail_user	Sends mail to the specified email address
-v swap_limit	Set the total process virtual memory limit (KB) for the whole job
-W run_time[/host_name / host_model]	Sets the run time limit of the job in the form [hour:]minute
-w 'dependency_expression'	Places a job when the dependency expression evaluates to TRUE
-wa 'signal'	Specifies the job action to be taken before a job control action occurs
-wt '[hour:]minute'	Specifies the amount of time before a job control action occurs that a job warning action is to be taken
-Zs	Spools a command file for the job to the directory specified by the JOB_SPOOL_DIR in lsb.params
-h	Prints command usage to stderr and exits
-V	Prints LSF release version to stderr and exits

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