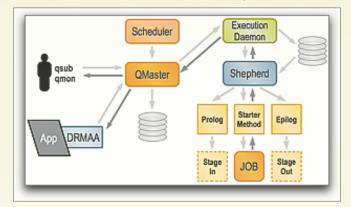
TARGET	ACT	CMD.	SWITCH
SCHEDULER	SHOW	qconf	-sss
	TERMINATE	qconf	-ks
SCHEDULER CONFIG	MODIFY	qconf	-msconf
	SHOW	qconf	-ssconf
SHARE TREE	ADD NODE	qconf	-astnode path
	Format: / <path>=<shares> path is Xpath-style with "/" as root node</shares></path>		
	CREATE	qconf	-astree
	DELETE	qconf	-dstree
	SHOW	qconf	-sstree
SUBMIT	CREATE	qconf	-as name
пові	DELETE	qconf	-ds name
	SHOW	qconf	-ss
USER	CREATE	qconf	-auser
	DELETE	qconf	-duser name
	MODIFY	qconf	-muser name
	SHOW	qconf	-usq name
	LIST	qconf	-suserl
USER LIST	CREATE	qconf	-au user_name list_name
	Note: If user list does not exist it will be created automatically		
	DELETE	qconf	-dul list_name
	DELETE USER	qconf	-du user_name list_name
	Modify	qconf	-mu list_name
	SHOW	qconf	-su list_name
	LIST	qconf	-sul
USER SET		SEE "USE	R LIST"

Daemons & Job Life Cycle



GRAPHIC SOURCE: DANIEL TEMPLETON

- Jobs are submitted from submit hosts or via DRMAA API
- 2. User identity, current working directory, paths and environment values captured if available
- 3. Qmaster host receives job request, places entry in spool database and notifies the scheduler
- 4. Scheduler attempts to place job in best possible job slot. If the job can be placed during the current scheduling interval, the chosen queue instance name is returned to the qmaster daemon. If job can not be placed it remains on the pending task list.
- 5. Qmaster host receives queue instance name from the scheduler and dispatches job to the execution daemon running on the remote host.
- The remote Execution daemon spawns a shepherd process to manage the job. The shepherd performs a setuid operation to effectively "become" the job submitter
- 7. Shepherd sets up job, including paths, cwd and environment variables recorded at submission time. The shepherd starts the job, monitors resource usage data and exit status. Shepherd also performs post-job cleanup tasks.
- 8. Exit status & accounting data are passed back to execution daemon which then passes the info back to the Qmaster.

Grid Engine 6.1 Quick Reference

This tri-fold brochure was created for BioTeam customers by reformatting the information contained in Dan Templeton's "SGE Cheat Sheet.pdf." Feel free to copy, publish and redistribute. Suggestions for

ADDITIONAL RESOURCES

http://gridengine.sunsource.net

MAIL LISTS	<u>Howtos</u>	<u>Manpages</u>
ADMIN & USER GUIDES	BLOG	<u>Wiki</u>



TARGET	ACT	CMD.	SWITCH	
ACL	SEE "USER LIST"			
ADMIN HOST	CREATE	qconf	-ah <i>name</i>	
	DELETE	qconf	-dh name	
	LIST	qconf	-sh	
ADVANCE	CREATE	qrsub	(SEE MANPAGE)	
RESERVATION	DELETE	qrdel	res_id	
	SHOW	qrstat	-ar ar_id	
	LIST	qrstat		
CALENDAR	CREATE	qconf	-acal name	
	DELETE	qconf	-dcal name	
	MODIFY	qconf	-mcal name	
	SHOW	qconf	-scal name	
	LIST	qconf	-scall	
CHECKPOINT	CREATE	qconf	-ackpt name	
	DELETE	qconf	-dckpt name	
	MODIFY	qconf	-mckpt name	
	SHOW	qconf	-sckpt name	
	LIST	qconf	-sckptl	
COMPLEX ENTRY	CREATE	qconf	-mc	
ENIRY	DELETE	qconf	-mc	
	MODIFY	qconf	-mc	
	SHOW	qconf	-sc	
CONCUMARIE	6	EE "COMPL	EV ENTRY"	
CONSUMABLE DEPARTMENT	5	SEE "USE		
EVENT CLIENT	SHOW LIST	qconf	-secl	
EXEC HOST	STOP	qconf	-ke <i>name</i>	
	If name is "a	If name is "all",all exec hosts will be killed		
EXEC HOST	CREATE	qconf	-ae [config]	
CONFIG	Name config	Name config with "-ae" to import as template		
	DELETE	qconf	-de name global	
	MODIFY	qconf	-me name global	
	SHOW	qconf	-se name global	
	LIST	qconf	-sel	

TARGET	ACT	CMD.	SWITCH
GLOBAL EXEC HOST CONFIG	SEE "EXEC HOST CONFIG"		
GLOBAL HOST CONFIG	SEE "HOST CONFIG"		
HOST CONFIG	CREATE	qconf	-aconf name
CONFIG	DELETE	qconf	-dconf name
	MODIFY	qconf	-mconf [name]
	SHOW	qconf	-sconf [name]
	LIST	qconf	-sconfl
	Note: The "global" host configuration can not be deleted. If [name] not provided, SGE assumes "global".		
Host	CREATE	ggonf	ahara Anama
GROUP	DELETE	qconf	-ahgrp @name
	Modify	qconf	-dhgrp @name
	SHOW	1	
	LIST	qconf	-shgrp @name
Јов	ALTER	qconf	-shgrpl (SEE MANPAGE)
308	CLEAR	qalter	
	ERROR	qmod	-cj jobID
	HOLD	qalter	-hold_jid jobID
	HOLD	qhold	jobID
	RELEASE	qrls	-h n jobID
	RESCHEDULE	qmod	-rj jobID
	SHOW	qstat	-j jobID
	Note: In most cases, job name and wildcard ('*') patterns can be used in place of jobID		
	LIST	qstat	
	SUBMIT	qrsh	(SEE MANPAGE)
	SUBMIT	qsub	(SEE MANPAGE)
	SUSPEND	qmod	-sj jobID
	TERMINATE	qdel	jobID
MANAGER / OPERATOR	CREATE	qconf	-am name
	DELETE	qconf	-dm name
	LIST	qconf	-sm
	Note: substitut specific create		and -so" for operator tions.

7	ARGET	ACT	CMD.	SWITCH
	PARALLEL ENVIRONMENT ("PE")	CREATE	qconf	-ap name
		DELETE	qconf	-dp name
(. ,	MODIFY	qconf	-mp name
		SHOW	qconf	-sp name
		LIST	qconf	-spl
PRO	JECT	CREATE	qconf	-aprj <i>name</i>
		DELETE	qconf	-dprj name
		MODIFY	qconf	-mprj <i>name</i>
		SHOW	qconf	-sprj name
		LIST	qconf	-sprjl
QM	MASTER	STOP / TERMINATE	qconf	-km
QU	QUEUE	CLEAR ERROR	qmod	-cq name '*'
		CREATE	qconf	-aq name
		DELETE	qconf	-dq name
		MODIFY	qconf	-mq name
		RESUME	qmod	-usq name
		SHOW	qconf	-sq [name]
		-sq used with	hout [name]	prints default template
		LIST	qstat	-f -u '*'
		LIST	qselect	
		LIST	qconf	-sql
		SUSPEND	qmod	-sq name
RE	SOURCE	SE	E "COMPL	EX ENTRY"
DE	RESOURCE QUOTA SET	CREATE	qconf	-arqs [name]
Qu		DELETE	qconf	-drqs name
SE		MODIFY	qconf	-mrqs name
		SHOW	qconf	-srqs [name]
	LIST SETS	qconf	-srqsl	
		SHOW	qquota	

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Continued on reverse ...