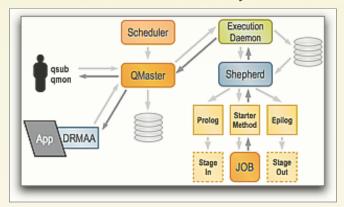
ACT	CMD.	Switch	
SHOW	qconf	-sss	
TERMINATE	qconf	-ks	
MODIFY	qconf	-msconf	
SHOW	qconf	-ssconf	
ADD NODE	qconf	-astnode path	
Format: / <path>=<shares> path is Xpath-style with "/" as root node</shares></path>			
CREATE	qconf	-astree	
DELETE	qconf	-dstree	
SHOW	qconf	-sstree	
CREATE	qconf	-as name	
DELETE	qconf	-ds name	
SHOW	qconf	-ss	
CREATE	qconf	-auser	
DELETE	qconf	-duser name	
MODIFY	qconf	-dq name	
SHOW	qconf	-usq name	
LIST	qconf	-suserl	
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	
	SEE "USE	R LIST"	
	SHOW TERMINATE MODIFY SHOW ADD NODE Format: /< Xpath-styll CREATE DELETE SHOW CREATE DELETE SHOW CREATE DELETE MODIFY SHOW LIST CREATE Note: If will be believe	SHOW QCONF TERMINATE QCONF TERMINATE QCONF MODIFY QCONF SHOW QCONF ADD NODE QCONF Format: / <path>=<sh xpath="">=<sh xpath="">=<sh "="" create="" delete="" list="" modify="" qconf="" qconf<="" show="" td="" with="" xpath-style=""></sh></sh></sh></path>	

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
- 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 improvements should be sent to chris@bioteam.net

ADDITIONAL RESOURCES http://gridengine.sunsource.net MAIL LISTS HOWTOS MANPAGES ADMIN & BLOG WIKI USER GUIDES



Alphabetical Reference by Target

ACL ADMIN HOST CREATE QCONF -ah name DELETE QCONF -dh name LIST QCONF -sh ADVANCE RESERVATION DELETE QTdel SHOW QTStat CREATE QCONF -acal name DELETE QCONF -dcal name MODIFY QCONF -scal name LIST CREATE QCONF -acal name MODIFY QCONF -scal name DELETE QCONF -scal name LIST CREATE QCONF -sckpt name MODIFY QCONF SHOW QCONF -sckpt name SHOW QCONF -sckpt name	TARGET	ACT	Смо.	SWITCH
HOST DELETE qconf -dh name LIST qconf -sh CREATE qrsub (SEE MANPAGE) 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 ENVIRONMENT CREATE qconf -dckpt name MODIFY qconf -mckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name	ACL	SEE "USER LIST"		
DELETE qconf -dh name LIST qconf -sh CREATE qrsub (SEE MANPAGE) 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 ENVIRONMENT CREATE qconf -dckpt name MODIFY qconf -mckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name		CREATE	qconf	-ah name
ADVANCE RESERVATION CREATE qrsub (SEE MANPAGE) 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 MODIFY qconf -mckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name MODIFY qconf -sckpt name SHOW qconf -sckpt name		DELETE	qconf	-dh name
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 MODIFY qconf -mckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name		LIST	qconf	-sh
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 ENVIRONMENT CREATE qconf -ackpt name MODIFY qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name		CREATE	qrsub	(SEE MANPAGE)
CALENDAR CREATE qconf -acal name DELETE qconf -dcal name MODIFY qconf -mcal name SHOW qconf -scal name LIST qconf -scall CHECKPOINT ENVIRONMENT CREATE qconf -ackpt name MODIFY qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name		DELETE	qrdel	res_id
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 SHOW qconf -sckpt name SHOW qconf -sckpt name		SHOW	qrstat	-ar ar_id
DELETE qconf -dcal name MODIFY qconf -mcal name SHOW qconf -scal name LIST qconf -scall CHECKPOINT ENVIRONMENT CREATE qconf -ackpt name DELETE qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name		LIST	qrstat	
DELETE qconf -dcal name MODIFY qconf -mcal name SHOW qconf -scal name LIST qconf -scall CHECKPOINT ENVIRONMENT CREATE qconf -ackpt name DELETE qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name SHOW qconf -sckpt name	CALENDAD	CDEATE		
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	CALENDAR		_	
SHOW qconf -scal name LIST qconf -scall CHECKPOINT CREATE qconf -ackpt name DELETE qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name			-	
CHECKPOINT CREATE QCONF -scall CHECKPOINT CREATE QCONF -ackpt name DELETE QCONF -dckpt name MODIFY QCONF -mckpt name SHOW QCONF -sckpt name			-	
CHECKPOINT ENVIRONMENT CREATE qconf -ackpt name DELETE qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name			_	
DELETE qconf -dckpt name MODIFY qconf -mckpt name SHOW qconf -sckpt name	G		_	
MODIFY qconf -mckpt name SHOW qconf -sckpt name			_	_
SHOW qconf -sckpt name			qconf	_
quoni sonpe name			-	-
LIST qconf -sckptl			qconf	-sckpt name
	_		qconf	-sckptl
COMPLEX CREATE qconf -mc			qconf	-mc
DELETE qconf -mc			_	-mc
MODIFY qconf -mc		MODIFY	qconf	-mc
show qconf -sc		SHOW	qconf	-sc
CONSUMABLE SEE "COMPLEX ENTRY"	CONSUMABLE	S	FF "COMPL	FX FNTRY"
DEPARTMENT SEE "USER LIST"				
EVENT SHOW qconf -secl			qconf	-secl
EXEC HOST STOP qconf -ke name	EXEC HOST	STOP	qconf	-ke <i>name</i>
If name is "all", all exec hosts will be killed		3		
EXEC HOST CREATE qconf -ae [config]		CREATE	qconf	-ae [config]
Name config with "-ae" to import as template	CONFIG	Name config with "-ae" to import as template		
DELETE qconf -de name globa		DELETE	qconf	-de name global
MODIFY qconf -me name globa		MODIFY	qconf	-me name global
SHOW qconf -se name globa		SHOW	qconf	-se name global
LIST qconf -sel		LIST	qconf	-sel

TARGET	ACT	Смд.	Switch
GLOBAL EXEC HOST CONFIG	SEE "EXEC HOST CONFIG"		
GLOBAL HOST CONFIG	SEE "HOST CONFIG"		
HOST	CREATE	qconf	-aconf name
	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		
HOST GROUP	CREATE	qconf	-ahgrp @name
	DELETE	qconf	-dhgrp @name
	Modify	qconf	-mhrgp @name
	SHOW	qconf	-shgrp @name
	LIST	qconf	-shgrpl
JOB	ALTER	qalter	(SEE MANPAGE)
	CLEAR ERROR	qmod	-cj jobID
	HOLD	qalter	-hold_jid <i>jobID</i>
	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
MANACED /	CREATE	qconf	-am name
MANAGER / OPERATOR	DELETE	qconf	-dm name
	LIST	qconf	-sm
	Note: substitute "-ao, -do and -so" for operator specific create/delete/list actions.		

TARGET	ACT	CMD.	SWITCH
PARALLEL ENVIRONMENT	CREATE	qconf	-ap name
("PE")	DELETE	qconf	-dp name
	MODIFY	qconf	-mp name
	SHOW	qconf	-sp name
	LIST	qconf	-spl
PROJECT	CREATE	qconf	-aprj <i>name</i>
	DELETE	qconf	-dprj name
	MODIFY	qconf	-mprj <i>name</i>
	SHOW	qconf	-sprj name
	LIST	qconf	-sprjl
QMASTER	STOP / TERMINATE	qconf	-km
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
RESOURCE	SE	EE "COMPL	EX ENTRY"
	CREATE	qconf	-arqs [name]
RESOURCE QUOTA	DELETE	qconf	-drqs name
SET	MODIFY	qconf	-mrqs name
	SHOW	qconf	-srqs [name]
	LIST SETS	qconf	-srqsl
	SHOW	qquota	

Document version 3.0 (US Format)

Continued on reverse ...