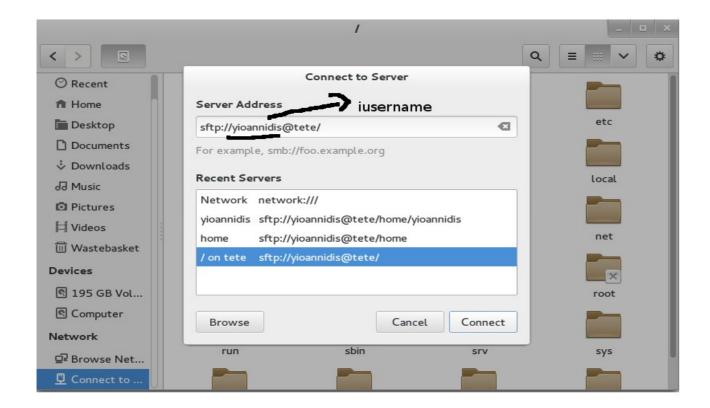
Qube Renderfarm Guide: Houdini (HBatch)

Scene setup

note: versions of Houdini in the screenshots shown here will be different to the ones in current system because of continuous houdini updates, however it shouldn't affect the overall setup process

In order to prepare your scene for submission to the renderfarm, the following steps are suggested:

- Place scene file, and associated scene assets (eg. Textures, Sims etc.) in folders, within a single directory
- Make use of relative file paths using the \$HIP or \$JOB variables when assigning all scene assets
- (If \$JOB is being used it can be set in the textport i.e. set -g JOB = /render/i1234567/myHoudiniSceneDir)
- Copy the entire scene folder to your directory within /render on the tete server.
 - This can be done using the Connect to Server... option which can be found in the Places main linux menu, all the way down



server address: **sftp:**//**iusername**@tete/

• It is sensible to add a bookmark to this location, so it can be easily accessed when setting up and accessing future renders.

- \circ Copy and Paste can be used to copy your scene directory into this directory ready for use on the render farm.
- Alternatively files can be copied using the sftp command line tool.
- Start Qube:
- Submit a Houdini job by clicking on: **Submit–CmdRange Job**...

Suggested Qube Settings

The following defaults are a good starting point for starting a Houdini job on the renderfarm.

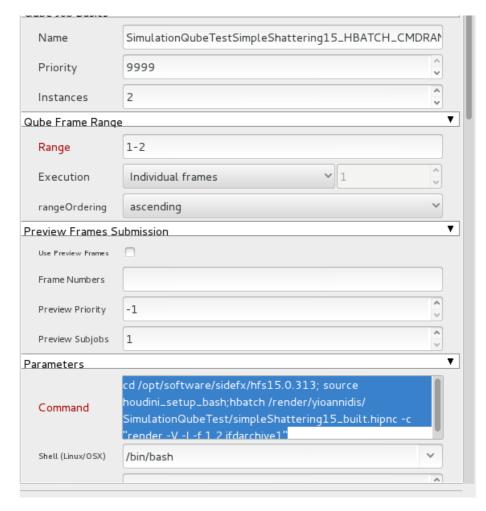
- **-Instances**: Set number of frames to render in parallel **(not more than 40)**
- -Frame Range

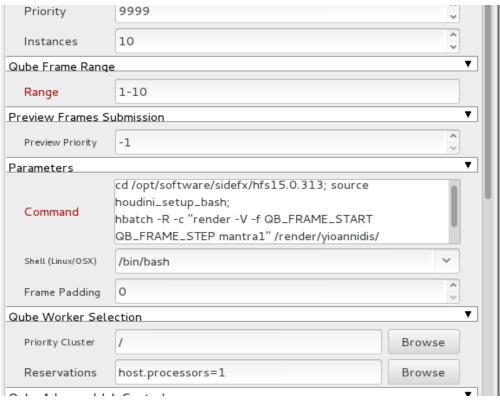
the following is specified as part of the **Cmd Template** Command

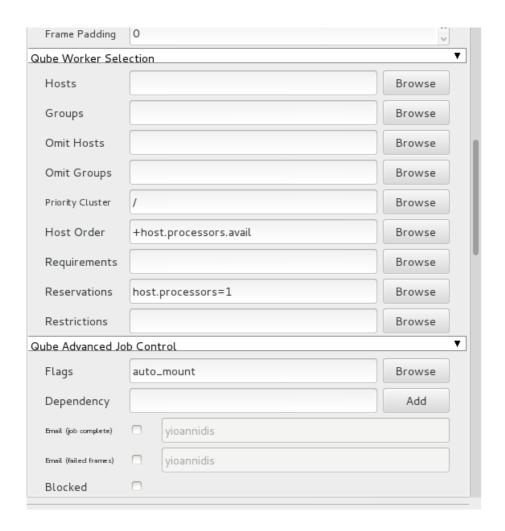
-Render Output Node: ex. mantra1

Cmd Template: Render command to be executed. This needs to include commands to initialize the HoudiniEnvironment. We recommend starting with the entire template shown here:

cd /opt/software/sidefx/hfs17.0.416; source houdini_setup_bash; hbatch -R -c "render -V -f QB_FRAME_START QB_FRAME_END mantra1***" /render/username***/folder***/scene***.hipnc







Process Group					
Retry Frame/Instance	0				
Retry Work Delay	0	^ ~			
Subjob Timeout	-1				
Frame Timeout	-1				
Qube Job Environm	nent	▼			
Cwd	/home/yioannidis				
	Key	Value			
	HOUDINI_USE_HFS_PYTHON	1			
	SESI_LMHOST	burton.bournemouth.ac.uk			
Environment Variables					
Impersonate User					
Qube Job Validation & RegularExpression-based Output Parsing					
Min File Size	0 2				
regex_highlights					

Environment Variables: Used to add environment variables. Must have variable for license server set here