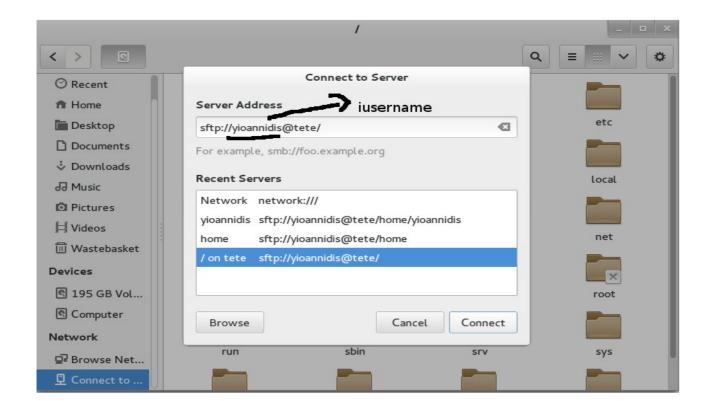
## **Qube Renderfarm Guide: Houdini**

## Scene setup

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-Houdini SimpleCmd-Houdini (hrender) Job ...

## **Suggested Qube Settings**

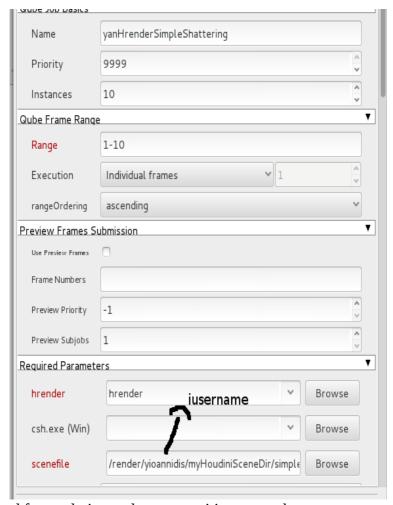
The following defaults are a good starting point for starting a Houdini job on the renderfarm.

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

**Range**: Specify frame range in the format start-end.

scenefile: Enter path to scene file to render i.e.

/render/<mark>iusername</mark>/myHoudiniSceneDir/simpleShattering.hipnc



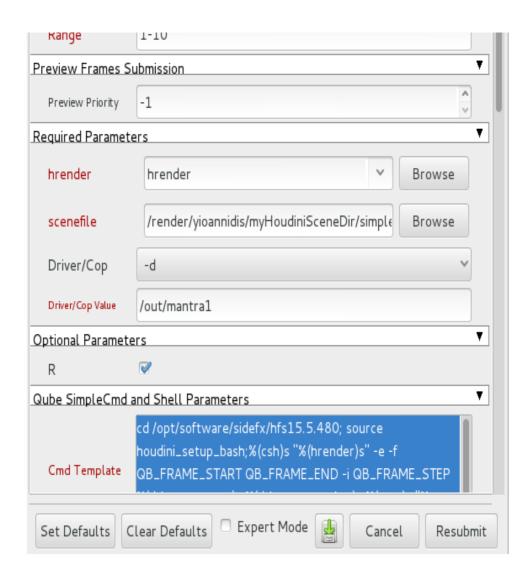
**Driver/Cop:** Select -d for rendering and -c compositing network output

**Driver/Cop Value:** Pick your output driver. I.e. /out/mantra1

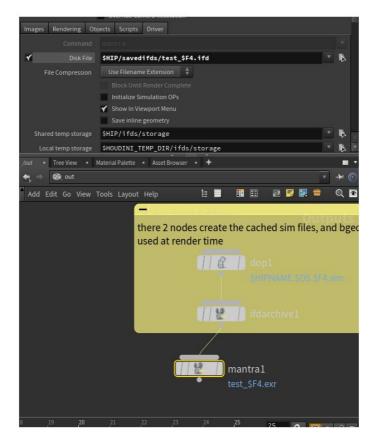
**R**: Make sure this setting is enabled in order to make sure that a non-graphics render license is used rather than a full Houdini license

**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/16.0.557; source houdini\_setup\_bash;%(csh)s "%(hrender)s" -e -f QB\_FRAME\_START QB\_FRAME\_END -i QB\_FRAME\_STEP %(driver\_cop\_arg)s % (driver\_cop\_value)s %(argv)s "%(scenefile)s"



You can use the above command to either render your live scene directly or even generate  $\mathbf{ifd}$  files for later use



Requirements		Browse				
Reservations	host.processors=1	Browse				
Restrictions		Browse				
Qube Advanced Job Control ▼						
Flags	auto_mount	Browse				
Dependency		Add				
Email (job complete)	□ [i7762165					
Email (failed frames)	□ [i7762165					
Blocked						
Stderr->Stdout						
Job Label						
Job Kind						
Process Group						
Set Defaults Clear Defaults Expert Mode Cancel Resubmit						

## **Environment Variables**: Used to add environment variables.

Must have variable for the license server set here

Resubmit Houdini (hrender)							
Qube Advanced Job Control ▼							
Flags	auto_	auto_mount Browse					
Email (job complete)		i7762165					
Email (failed frames)		i7762165					
FlightCheck scripts							
Qube Job Delayed Start							
Qube Job Environment ▼							
Cwd	/home/yioannidis						
		Key	V	alue			
	HOUE	DINI_USE_HFS_PYTHON	1	- 11			
Environment Variables	SESI_	LMHOST	burton.bournemout	th.ac.uk			
Qube Job Validatio	n & Ra	egularExpression-based O	uutnut Parsing				
Qube Actions	11 00 150	.oguarexpression based o					
Qube Notes ▼							
Notes							
Set Defaults Clear Defaults Expert Mode Cancel Resubmit							

