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 -q JOB = /render/i1234567/myRenders)
- 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
 - The following settings should be used:

Service Type: SSH

Server: tete

Folder: /home/i1234567 **User Name:** i1234567 (replacing i1234567 with your username.)

It is sensible to add a **bookmark** to this location, so it can be

- easily accessed when setting up and accessing future renders. 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: goQube
- 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.

| Quite | Job Basics | Name | Na

Instances: Set number of nodes to use.

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

scenefile: Enter path to scene file to render i.e. /render/i1234567/myProject/untitled.hipnc

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

network output

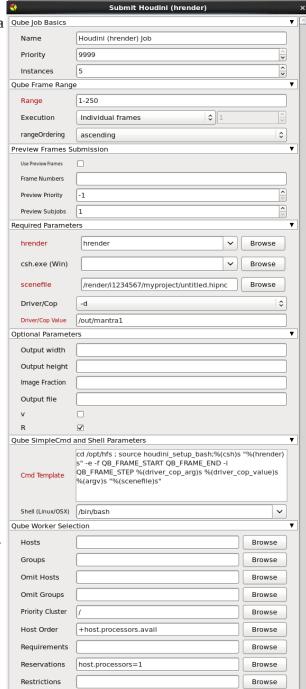
Driver/Cop Value: Pick your output driver. I.e.

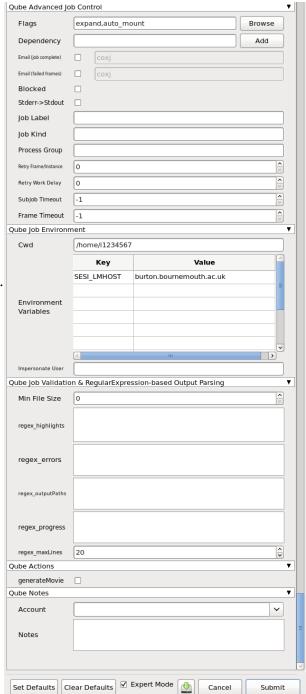
/out/mantra1

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 Houdini Environment. We recommend starting with the entire template shown here:

cd /opt/hfs; 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"





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