

Mounting Volumes using NFS on Mac

Overview

This document covers the method to mount exported filesystems on a Mac using NFS. It is designed as a guide and is a recommended method when interfacing the Mac version of BlackMagic with a Scitex Brisque.

The version of Mac should be 10.2 or greater. The user should have an understanding of Mac OSX and be able to use a Terminal to access and edit files. The user should also be able to export the filesystems from the Scitex system. This is not covered in the document and should only be done by an experienced unix user.

If in doubt you should contact the System Administrator before you do anything. There is an NFS Shareware utility for Mac OSX called NFSManager which provides a GUI for setting up NFS. This can be found on the internet.

Introduction

We will assume that the Scitex Brisque is using the following paths for the storage of it's files.

```
/dataVolumes/brisque99.1.0  
/dataVolume/brisque12.2.0  
/scitex/version/markers
```

The name of the brisque will be referred to as "brisque" and the IP address as 192.9.200.1. You need to substitute the path names, machine names and IP addresses to match your own configuration. The markers directory is only used if impose is in use. The Mac Boot drive is called Macintosh HD.

What will be involved is creating directories on the Mac, mounting the exported volumes onto those directories and creating a NFS file to mount them each time the Mac is restarted. When the "terminal" is referred to it is the Terminal utility found in the Applications/Utilities folder.

Method

Firstly, we need to create directories for our mount points. You can create these two ways.

Command Line - In the terminal window type the following

```
mkdir -p /dataVolumes/brisque99.1.0  
mkdir -p /dataVolumes/brisque12.2.0  
mkdir /scitex
```

Alternatively you can create these folders from the finder window. The folder dataVolumes needs to be created on the boot harddisk location i.e.. Macintosh HD.

These can be mounted from the command line but the best way is to create a file and have them mounted automatically at startup. To do this go to the following place

Macintosh HD/Library/StartupItems

If the folder "StartupItems" does not exist then create it. The name is case sensitive.

In this folder create a folder called NFS.

To create these folders from the command line, in the terminal type

```
mkdir -p /Library/StartupItems/NFS
```

Inside this folder we need to create a file called NFS. To do this you can use the Text Editor in Applications (or another text edit program) or by using vi on the command line (You should be familiar with vi commands). The file should contain the following (depending on your setup).

```
#!/bin/sh

##
# Network File System mount
##

. /etc/rc.common

StartService ()
{
    CheckForNetwork
    if [ "${NETWORKUP}" = "-NO-" ]; then exit; fi
## Mount any nfs filesystems

mount_nfs -P -r 16384 -w 16384 192.9.200.1:/dataVolumes/brisque99.1.0 /dataVolumes/brisque99.1.0
mount_nfs -P -r 16384 -w 16384 192.9.200.1:/dataVolumes/12.2.0 /dataVolumes/brisque12.2.0
mount_nfs -P -r 16384 -w 16384 192.9.200.1:/sctiex /scitex

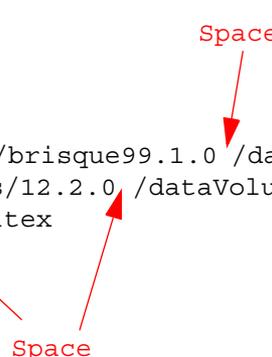
## End of mounting file systems

}

StopService ()
{
    return 0
}

RestartService ()
{
    return 0
}

RunService "$1"
```



Providing this is entered correctly, you can reboot the Mac and the sctiex filesystems should mount at startup. This is providing the filesystems are already exported and the Mac can see the scitex system on the network.

This file is available on the Serendipity Software website at <ftp://ftp.riponce.com/pub/downloads/fornfs.tar>. It is in a tar format so that all directories in Library will be created if they do not currently exist. Download the file to Macintosh HD (root) and in the terminal type

```
cd /
tar xvf fornfs.tar
```

Note: You should make sure that the Mac does not currently have an NFS file. If it does then you just need to add the relevant entries to that file.

BlackMagic Configuration

In the BlackMagic ControlPanel under RIP's, create a new RIP and give it a name. Select the Scitex Brisque input filter (needs the scitex bit enabled on the dongle) and under the "hostname/IP" section enter

```
localhost
```

In the Paths enter

```
/dataVolumes/brisque99.1.0  
/dataVolume/brisque12.2.0
```

And in the customise section enter the path for the markers directory as

```
/scitex/version/markers
```

Save and test the configuration. Providing you do not get any errors, you can open the RIPMonitor, select the RIP you have just created (make sure that it is on i.e. is not red) and press "Poll now" three times. Your jobs should appear.