

Operation of DS1 with SGI

This info is a rough draft regarding use of the MultiBuffer DS-1 on an Ethernet network with an SGI workstation.

SGI & DS-1 setup

1. Set up a new host on your SGI workstation for the DS-1

Check your workstation to see what IP addresses are available and set the DS-1's address as needed from the DS-1 front panel. Or just use the DS-1 address that is already in there.

To set the DS-1 IP address, go to the Network Menu and arrow through to the IP address. Press the down arrow to get to the menu for setting a new address. It's in hexadecimal rite now, so you may need to make few trys and "zero in" on what you want the address to be. Press enter when done.

2. rlogin- remote login

In a shell, you should be able to rlogin now. This is where you control the DS-1 functions, such as timing and routing press the ? to see your command choices. You can't send or grab pictures from here though, logout (or exit or command D) and use the rcp command for sending and grabbing.

3. rcp - remote copy

To send a YUV picture from the SGI to buffer 1 in the DS-1, type this command in the shell:

```
rcp filename ds1:001
```

To grab a picture in the DS-1 and copy it to the workstation in YUV format:

```
rcp ds1:001 filename
```

4. RGB file format

fromyuv and toyuv are utilities that are on many workstations already and are also used with disc recorder; these utilities are also used with the DS-1/SGI too. They are often found in /user/sbin.

To change a picture you grabbed from YUV (the DS-1's format) to RGB (the SGI's format and the one you can easily view on the SGI screen):

```
fromyuv existing.filename new.file.name
```

To change an RGB file to YUV:

```
toyuv existing.filename new.file.name
```

4. Shell scripts

You can make scripts and iconize them to simplify your usage. Here are some examples:

For sending YUV files to the DS-1:

```
jot ds1buf1
```

In the jot window type:

```
rcp $1 ds1:001      where $1 is the temporary name for the
picture
```

Then close the window. You may need to check the permissions for this script:

```
ls -l ds1buf1
```

If you need to change the permissions to allow reading and writing, to make it executable:

```
chmod +x ds1buf1      where chmod is change mode
```

Now you can drag the icon on the desktop for use. Drag and drop a YUV file onto the icon and the picture should auto send to the DS-1.

For a script that lets you drag and drop RGB files:

```
toyuv $1 temp
rcp temp ds1:001
```

Change permissions if needed and drag the icon where you like for usage.

For a script that lets you grab RGB files:

```
rcp ds1:001 temp  
fromyuv temp $1
```

For further information, contact Ensemble Designs.

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