

## Installation Specific Commands

### vfc

*This syntax is specific to...  
SPARCstations running X Windows/OpenWindows*

<b>keys:</b>	<b>port</b>	<code>&lt;number&gt;</code>	specify RCA video port number to use
	<b>to</b>	<code>&lt;number&gt;</code>	specify picture number for storing image
	<b>size</b>	<code>&lt;number&gt;, &lt;number&gt;</code>	specify size of image subregion
	<b>position</b>	<code>&lt;number&gt;, &lt;number&gt;</code>	specify position of image subregion
<b>options:</b>	<b>on/off</b>		assign/deassign the VideoPix device
	<b>mono/colour/automatic</b>		specify monochrome/colour/automatic capture
	<b>grab/live</b>		specify single/continuous acquisition
	<b>svideo</b>		specify Super Video input port

The `vfc` command allows you to directly control a Sun VideoPix framegrabber and collect images from it.

### Examples

```
vfc on port 1
```

This command allocates the VideoPix and switches input to RCA port 1

```
vfc grab to 3
```

This command grabs a full frame image from the VideoPix and copies it to picture 3.

```
vfc live
```

This command previews incoming video data on the Semper display window.

### Description

The display server must be an 8-plane (256 colour) workstation. The VideoPix device must be assigned using the **on** option before any images can be acquired. When you have finished acquiring images you can free the device for other programs and users with the **off** option.

The input port can be one of the two RCA ports or the Super Video port. You can choose which using the **port** key and the **svideo** option.

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The incoming video is sensed automatically to determine the TV standard (NTSC or PAL) and whether there is any colour information. You can override the colour sense information using the options **monochrome** and **colour**. The option **automatic** restores the default sense operation.

Images can be acquired as single frames with the option **grab**, or continuously with the option **live**. If the **live** option is used the Semper display is used to preview the images and hence must be assigned. Continuous acquisition is terminated by pressing any key or mouse button when the focus is in a Semper window, at this point the original contents of the display are restored.

The last image acquired can be stored into a Semper image specified by the key **to**. The size of this image defaults to full frame, but can be overridden by the **size** key. In addition the position of the acquired region relative to the top left of the frame can be specified with the **position** key. The size and position keys are both in units of pixels. So, for example, the command:

```
vfc to 1 size 256,256 position 100,200
```

will store a 256 pixel square region from the last acquired image located 100 pixels from the left edge of the image and 200 pixels from the top.

### Notes

The TV standard is determined when you issue a *vfc on* command. If you have different standards on different ports you should deallocate the VideoPix between port changes. For example:

```
vfc on port 1 grab to 1; vfc off; vfc on port 2 grab to 2
```

### Defaults and Ranges

keys/options	defaults	range
port	<i>none</i>	1 or 2
size	<i>full frame for TV standard</i>	positive integers
position	<i>0,0</i>	positive integers
to	<i>none</i>	any valid picture number

## Installation Specific Commands

**vfc**

*This syntax is specific to...  
SPARCstations running X Windows with a  
Sun VideoPix frame grabber*

<b>keys:</b>	<b>port</b>	<code>&lt;number&gt;</code>	RCA video port number to use
	<b>to</b>	<code>&lt;number&gt;</code>	picture number for storing image
	<b>size</b>	<code>&lt;number&gt;,&lt;number&gt;</code>	size of image subregion
	<b>position</b>	<code>&lt;number&gt;,&lt;number&gt;</code>	subregion offset from top left of frame
<b>options:</b>	<b>on/off</b>		assign/deassign the VideoPix device
	<b>mono/colour/automatic</b>		select monochrome/colour/automatic capture
	<b>grab/live</b>		select single/continuous acquisition
	<b>svideo</b>		select Super Video input port

The **vfc** command allows you to directly control a *Sun VideoPix* framegrabber and collect images from it.

### Examples

```
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This command allocates the VideoPix and switches input to RCA port 1

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vfc grab to 3
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This command grabs a full frame image from the VideoPix and copies it to picture 3.

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vfc live
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This command previews incoming video data on the Semper display window.

### Description

The display server must be an 8-plane (256 colour) workstation. The VideoPix device must be assigned using the **on** option before any images can be acquired. When you have finished acquiring images you can free the device for other programs and users with the **off** option.

The input port can be one of the two RCA ports or the Super Video port. You can choose which using the **port** key and the **svideo** option.

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The incoming video signal is sensed automatically to determine the TV standard (NTSC or PAL) and whether there is any colour information. You can override the colour sense information using the options **monochrome** and **colour**. The option **automatic** restores the default sense operation.

Images can be acquired as single frames with the option **grab**, or continuously with the option **live**. If the **live** option is used, the Semper display is used to preview the images and hence must be assigned. Continuous acquisition is terminated by pressing any key or mouse button when the focus is in a Semper window. At this point the original contents of the display are restored.

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```
vfc to 1 size 256,256 position 100,200
```

will store a 256 pixel square region from the last acquired image located 100 pixels from the left edge of the image and 200 pixels from the top.

The TV standard is determined when you issue the command **vfc on**. If you have different standards on different ports you should deallocate the VideoPix between port changes. For example:

```
vfc on port 1 grab to 1  
vfc off  
vfc on port 2 grab to 2
```

### Defaults and Ranges

keys/options	defaults	range
port	<i>none</i>	1 or 2
size	full frame for TV standard	positive integers
position	0,0	positive integers
to	<i>none</i>	valid picture number