NAME

xil_get_device_attribute, xil_set_device_attribute – get and set the values of attributes of device images

SYNOPSIS

```
#include <xil/xil.h>

int xil_get_device_attribute (XilImage image,
        char *attribute,
        void **value);

int xil_set_device_attribute (XilImage image,
        char *attribute,
        void *value);
```

DESCRIPTION

These routines get and set the values of attributes of device images. *image* is a handle to a device image. *attribute* is the name of an attribute, and *value* is the attribute's value. Attribute names and their possible values are defined by the group that writes the device handler.

xil_get_device_attribute() gets a device-specific *attribute.* It returns XIL_SUCCESS if the attribute is available, and XIL_FAILURE if the specified attribute is not available.

xil_set_device_attribute() sets a device-specific *attribute.* It returns XIL_SUCCESS if the attribute is successfully set, and XIL_FAILURE otherwise.

ERRORS

For a complete list of XIL error messages by number, consult Appendix B of the *XIL Programmer's Guide.*

EXAMPLES

Set the brightness of a frame-grabber input image:

```
int brightness;
brightness = 100;
XilImage framegrabber_image;

status = xil_set_device_attribute(framegrabber_image, "BRIGHTNESS",
        (void *)brightness);
if(status==XIL_FAILURE)
  fprintf(stderr,"Setting BRIGHTNESS attribute failed0);
```

Get the contrast of a frame-grabber input image:

```
int contrast;
XilImage framegrabber_image;

status = xil_get_device_attribute(framegrabber_image, "CONTRAST",
        (void **)&contrast);
if(status==XIL_FAILURE)
  fprintf(stderr,"Getting CONTRAST attribute failed0);
```

NOTES

xil_set_device_attribute() is used to set the attributes of an existing device image; it cannot be used to initialize attribute values before creating the device image. To initialize device attributes, use **xil_device_set_value**().

SEE ALSO

xil_create_from_window(3), **xil_create_from_device**(3), **xil_get_attribute**(3), **xil_get_readable**(3), **xil_get_writable**(3), **xil_device_create**(3), **xil_device_set_value**(3).