NAME

x10event – X10 event handler and device description file

SYNOPSIS

˜x10/x10event

DESCRIPTION

x10event is a shell script which contains the event handlers for the **x10iod**(1) X10 I/O daemon. It also describes the devices assigned to various house/unit codes. These descriptions take the form of shell commands, so the entire file can be validated with **bash -n** or **ksh -n**. The script uses the **function** keyword to locate event descriptions, so Bourne Shell (**sh**(1)) can not be used.

Event handlers

Event handlers take the form of a shell function. The function declaration must read **function module_**Xnn, where X is the house code and nn is the unit code. The open-curly brace must be on the next line.

When properly formatted, during daemon startup **x10iod.init** will recognize this as an event description and configure the **me** property for the device, causing the daemon to invoke the **x10event** shell script, which in turn will invoke the function.

When invoked, an event handler is given 3 parameters: 1, house code; 2, unit code; and 3, event type. The event type will be one of the following: **AllOff**, **LightsOn**, **On**, **Off**, **Dim**, **Bright**, **LightsOff**, **HailRequest**, **HailAcknowledge**, **PresetDim0**, **PresetDim1**, **StatusOn**, **StatusOff**, or **StatusRequest**.

Device descriptions

The format for device descriptions is:

<**light**|**light_group**|**appliance**> Xnn description

The description should be free of any characters that might interfere with shell processing as the file is also an executable shell script. The device code Xnn must be house and unit code, and must not be separated by whitespace.

light   Indicates that device Xnn is a light, and adds a light group for the house code. When run as a script, **x10event** collects all **light** devices into a list in the variable **lights.**

light_group   Creates a light group. When run as a script, **lightgroups** is created with a list of all house codes which possess lights. **light_group** can be used to force a house code to be added to this list, but is not usually necessary as the list is automatically formed from **light** entries.

appliance   Registers a device as an appliance. When run as a list, **appliances** is constructed with a list of all appliances.

EXAMPLE

None.

FILES

˜x10/x10event

SEE ALSO

x10cli(1), **x10iod**(1), **printf**(3).