

Steps to eliminate SR BOX in Eprime scripts 1/8/17 GH Glover

Introduction

The PST Serial response box (SRBox) is a device that has served many years at our Center as an input/output system for Eprime task scripts. Sadly, PST will no longer support the driver for this device beyond Windows XP (which has become outdated). The consequence of the unsupported drivers is bad behavior of the Eprime computers despite yeoman efforts by Dr. Tom Brosnan. It has been used (1) for input from wired response pads and (2) for triggering the scanners. There remain groups using mice or response pads in 3T2/3T3 requiring wired (as opposed to fiber optic) capability. That capability will be maintained by USB devices, which function identically for this purpose. The scan trigger function will be replaced by a serial connection. Implementing both services are detailed below.

Scan trigger

The SRBox has traditionally been used to generate a trigger pulse to start the scanner with an inline having content:

```
SRBox.lamps "4"  
Sleep (100)  
SRBox.lamps ""
```

This trigger function is replaced with a serial port (Com1 connection. The steps to make this modification to any Eprime script are:

1. Replace SRBox with Serial device. Go to the top level `Experiment` object. Click on `Devices`. Click on `SRBOX`, then `Remove`. Click on `Add`, and click `Serial`. Click on the `Serial` device, and verify COM Port 1; the other settings are not important, and the default of 9600 Bits/second, etc. is fine.
2. In the Scan Trig inline, replace the 3 lines above with the single line
`Serial.WriteString "1"`.

You can look in `Scanner Setup/NewScanTrig.es` for an example.

Button Responses

The SRBox has been used in 3T2 and 3T3 for response pad input. This function is replaced by either using the USBBox, with USB cable attached to a USB port in the Eprime computer or by using the FORP Pyka box, which is also a USB device. Either device creates responses that look like number keys were pressed on the keyboard. In 3T3 a USBBox will be added, identical in function to that in 3T2. A FORP Pyka Box will also be added.

Thus the only changes needed for input are to remove references to SRBox in the object collecting participant responses, because the script may fail without an SRBox. See step 1 above to remove the SR Box from the `Devices` tab. Then remove the `SRBOX` in the `Duration` tab of the object collecting responses. USB input will come through the `Keyboard` device that remains.

For help ask/see Gary. To scream, see Gary or send .mp3. Other options can only be imagined.