Fennec Fox Standard Test Suite

Name:

Email:

Date:

Platform:

No.	Test Name	Pass / Fail	
1	Blink	Pass	Fail
2	Printf	Pass	Fail
3	Network	Pass	Fail

Procedure:

The Fennec Fox Standard Test Suite is based on the Swift Fox test programs checking if a mote's LEDs are blinking, if the serial and printf libraries can communicate with a mote and PC, and if a network data collection is operating between two motes. The test suite is located in the Swift Fox directory, in `$ swiftfox/examples/tests`.

The suite has been tested on a $platform-name$, where $platform-name$ in one of the following: telosB, intelMote2, Z1, micaz.

No. 1 : Blink

INPUT:
Test Blinks LEDs.
```
$ sfc blink
$ fennec platform-name install
```
OUTPUT:
Should see blinking LEDs.

Comments

No.2 : Printf

INPUT:

`$ sfc printf`

`$ fennec` *platform* − *name* `install`

Using terminal on a computer to which a mote is connected to, the raw serial data is read by:

`$ java net.tinyos.tools.Listen -comm serial@/dev/ttyUSB0:115200`

To see text messages, serial date should be read by:

`$ java net.tinyos.tools.PrintfClient -comm serial@/dev/ttyUSB0:115200`

OUTPUT:

For raw data:

```
serial@/dev/ttyUSB0:115200:  resynchronising

00 FF FF 00 00 1C 00 64 48 65 6C 6C 6F 20 57 6F 72 6C 64 21 0A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 FF FF 00 00 1C 00 64 48 65 6C 6C 6F 20 57 6F 72 6C 64 21 0A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 FF FF 00 00 1C 00 64 48 65 6C 6C 6F 20 57 6F 72 6C 64 21 0A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 FF FF 00 00 1C 00 64 48 65 6C 6C 6F 20 57 6F 72 6C 64 21 0A 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

For text data:

```
Thread[Thread-1,5,main]serial@/dev/ttyUSB0:115200:  resynchronising

Hello World!

Hello World!

Hello World!

Hello World!
```

Comments

No.3 : Network

```
$ sfc network
```
Install Fennec Fox on the first mote, giving it address 102.
```
$ fennec platform − name install, 102
```
Power-on mote with id 102: the mote's LEDs SHOULD NOT blink.
Power-off mote with id 102.
```
$ fennec platform − name install, 101
```
Power-on mote with id 101: the mote's LEDs SHOULD blink.
Power-on mote with id 102: the mote's LEDs SHOULD blink the same sequence that mote with 101 does.

Comments