

# **MuntsOS Embedded Linux**

## ***Application Note #26: Java LED Flash Example***

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## Introduction

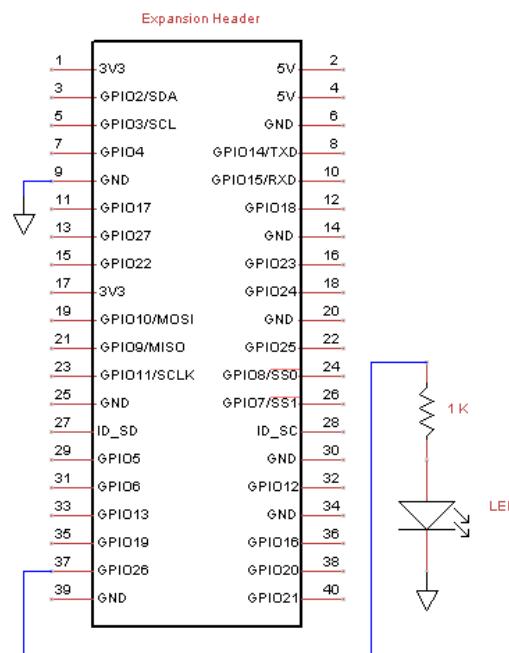
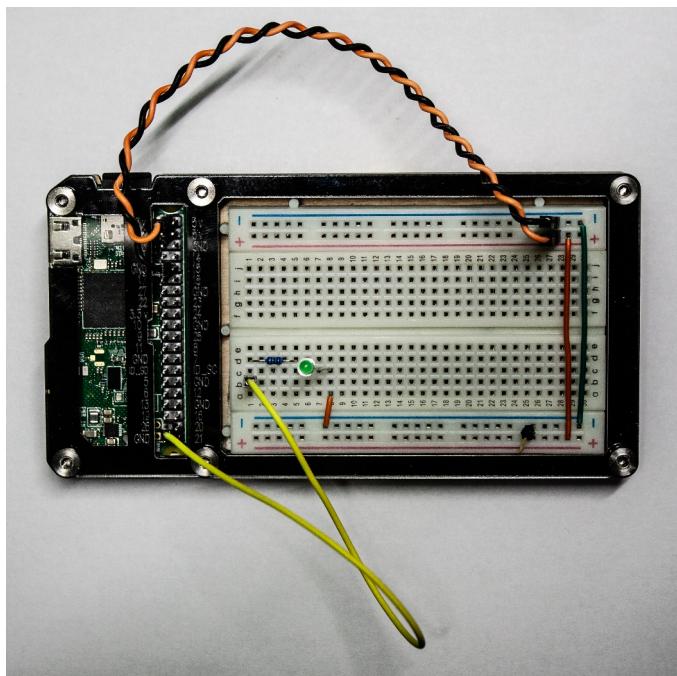
This application note describes how to create, build, and run a Java program to flash an LED on a target computer running **MuntsOS Embedded Linux**.

## Prerequisites

**MuntsOS Embedded Linux** must be installed on the target computer ([AppNote #3](#)).

The Java runtime extension package `java-muntsos-aarch64.deb` must be installed on the target computer, by running the `sysconfig` command on the target computer.

## Test Platform Hardware



The test platform for the purposes of this application note consists of a [Raspberry Pi Zero 2 Wireless](#) mounted in a [Zebra Zero Plus Breadboard](#) case. The orange and black jumper wires connect `+3.3v` and `GND` on the Raspberry Pi expansion header to the breadboard power rails. The yellow jumber connects `GPIO26` to a 1K ohm current limiting resistor and an LED.

## Test Program Source Code

Available for download at: <http://git.munts.com/muntsos/doc/.blinky/blinky.java>

```
import com.munts.interfaces.GPIO.*;
import com.munts.libsimpleio.objects.GPIO.*;
import com.munts.libsimpleio.platforms.RaspberryPi;

public class blinky
{
    public static void main(String args[])
        throws InterruptedException
    {
        System.out.println("\nMuntsOS Java LED Test\n");

        // Configure a GPIO output to drive an LED

        Builder b = new Builder(RaspberryPi.GPIO26);
        b.SetDirection(Direction.Output);
        Pin LED = b.Create();

        // Flash the LED forever (until killed)

        System.out.println("Press CONTROL-C to exit.\n");

        for (;;)
        {
            LED.write(!LED.read());
            Thread.sleep(500);
        }
    }
}
```

## Exercise

This example exercise demonstrates how to create a Java program project (outside of the **MuntsOS** code tree checkout), compile it, and run it on the test platform hardware.

*Step 1:* Prepare the **blinky** project:

```
mkdir blinky  
cd blinky  
wget https://git.munts.com/muntsos/doc/.blinky/Makefile.java  
mv Makefile.java Makefile  
wget https://git.munts.com/muntsos/doc/.blinky/blinky.java
```

*Step 2:* Build the **blinky** project:

```
make
```

*Step 3:* Copy **blinky.jar** to the test platform:

```
scp blinky.jar root@snoopy:.
```

*Step 4:* Run the test program on the test platform:

```
ssh root@snoopy  
java -jar ./blinky.jar
```

The LED should begin flashing once a second, until you press **CONTROL-C**.