MuntsOS Embedded Linux

Application Note #13: Python3 LED Flash Example

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Introduction

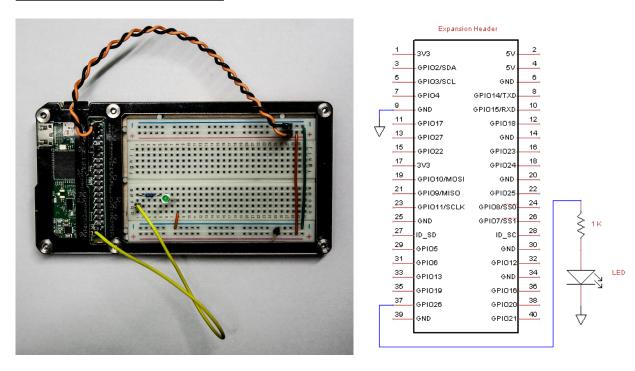
This application note describes how to run a Python3 program to flash an LED on a target computer running *MuntsOS Embedded Linux*, using the Python3 runtime extension.

Prerequisites

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

The Python3 runtime extension python3-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: https://repo.munts.com/muntsos/doc/.blinky/blinky.py

Exercise

This example exercise demonstrates how run **blinky.py** on the test platform hardware.

Step 1: Download the blinky program:

wget https://repo.munts.com/muntsos/doc/.blinky/blinky.py

Step 2: Copy the **blinky** program file to the target platform:

scp blinky.py root@snoopy:.

Step 3: Run the test program on the test platform:

ssh root@snoopy
chmod 755 blinky.py
./blinky.py

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