

# Programming Embedded Systems 2010 / JB

**Exercise 5** / 16.2.2010 / Deadline for submitting report 1.3.2010

Return report electronically on address: <https://xprog28.cs.abo.fi/ro.nsf>. If you do not have an ÅA account, please email report to [jerker.bjorkqvist@abo.fi](mailto:jerker.bjorkqvist@abo.fi)

Assistant: Dag Ågren. Dag will be available Mon-Thu afternoons for assistance. If not in the lab, please find him on 5<sup>th</sup> floor, room A5035.

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## Equipment and tools

Equipment used: Buffalo WHR-HP-G52-2 Wireless router

SDK: Ubuntu Linux 9.10 in a VirtualBox environment

## Task

Cross compile the open source OpenWRT firmware for the Buffalo WHR-HP-G54-2 wireless router. Show that the router works by connecting it to the network and modify the settings using the web interface.

## Guidelines

- Load the VirtualBox image from the lab network server (L:\PES\UbuntuOpenWrt.vdi)
- Set up the VirtualBox to use the Virtual Image, start the VirtualBox
- Follow the instructions on the page
  - <http://kamikaze.openwrt.org/docs/openwrt.html#x1-400002.1>

**General rules for documenting projects:**

Each report should include:

- Title
- Name
- Date / timeframe when exercise performed
- Group (if not done individually)
- Assumptions on knowledge of the reader
- Own contribution (if performed in group)
- Description of the task / exercise
- Description of the equipment used
- Description of performed work
- Achieved results