

# Operating Systems And Applications For Embedded Systems

## Development environment



## 1 Development environment

### 1.1 VirtualBox

Create following configuration:

RAM: 2048 MB

Disk drive: 32 GB

Video Memory: 32 MB

### 1.2 Ubuntu

Download ISO of Ubuntu 12.04.5 LTS and install on your virtual machine.

Update and upgrade packets by writting:

```
sudo su
```

```
apt-get update && apt-get upgrade -y
```

```
apt-get dist-upgrade -y
```

```
reboot
```

### 1.3 VBoxAdditions

Install VBoxAdditions on virtual machine.

### 1.4 Toolchains

Get and instal toolchains for ARM and Intel Galileo.

### 1.5 Kernel

Download and compile Linux Kernel for ARM Versatile and test it on qemu.

Download and compile Linux Kernel for Intel Galileo and test it on the development board.