

Operating System

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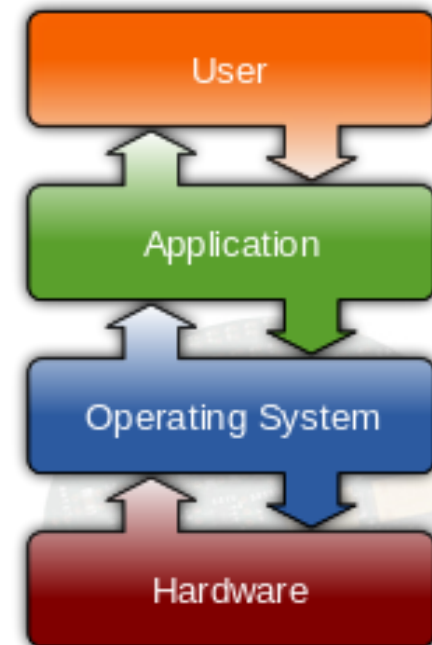
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Operating System

An Operating System (OS) manages all of the software and hardware on the computer. Most of the time, there are several different computer programs running at the same time, and they all need to access your computer's central processing unit (CPU), memory, and storage.



Operating System

Manages Resources

- Task Management
- Memory Management
- I/O Management
- Power Management
- Network Management



Raspberry Pi (Operating System)

Archlinux ARM, OpenELEC, Pidora (Fedora Remix), Puppy Linux, Raspbmc, Raspbian.

Raspbian is (recommended for Raspberry Pi 1) – Maintained independently of the Foundation, based on the ARM hard-float (armhf) Debian 7 'Wheezy' architecture port originally designed for ARMv7 and later processors (with Jazelle RCT/ThumbEE, VFPv3, and NEON SIMD extensions), compiled for the more limited ARMv6 instruction set of the Raspberry Pi. A minimum size of 4 GB SD card is required. There is a Pi Store for exchanging programs.

- The Raspbian Server Edition is a stripped version with fewer software packages bundled as compared to the usual desktop computer oriented Raspbian.
- PiBang Linux is derived from Raspbian.
- Raspbian for Robots – is a fork of Raspbian for robotics projects with LEGO, Grove, and Arduino.

Planned operating systems

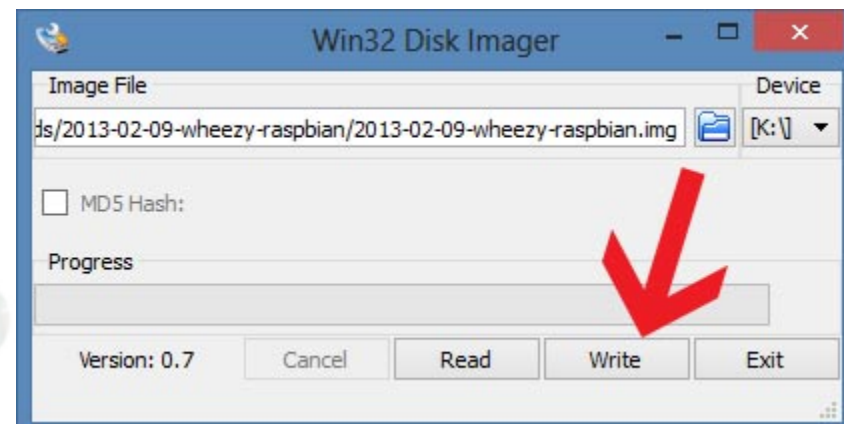
Haiku – This open source BeOS clone has been targeted for the Raspberry Pi and several other ARM boards.[107] Work began in 2011, on the model 1 but only the model 2 will be supported.

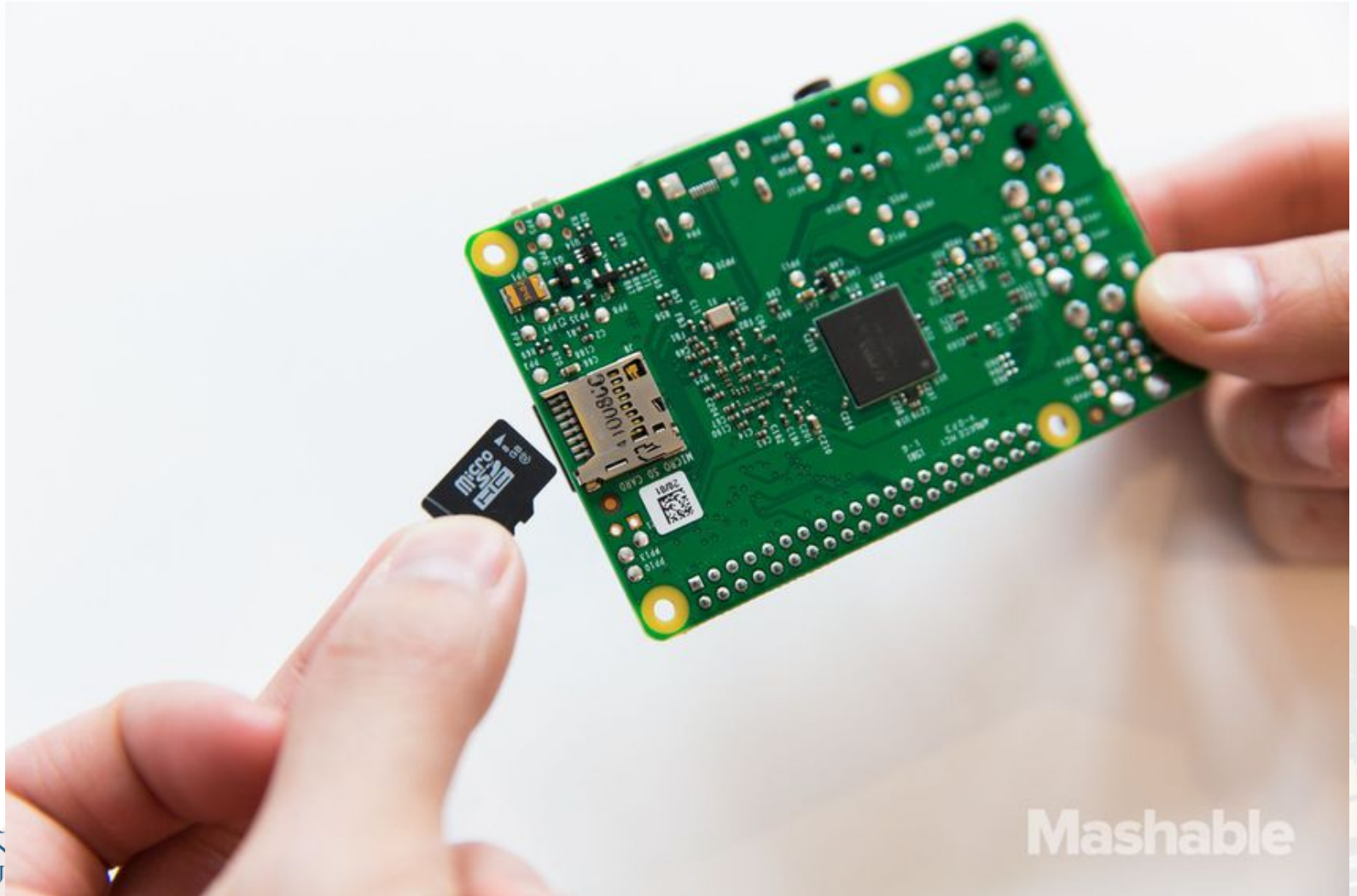
Windows 10 – Microsoft announced February 2015, it will offer a free version of the to-be-released Windows 10 running natively on the Raspberry Pi.

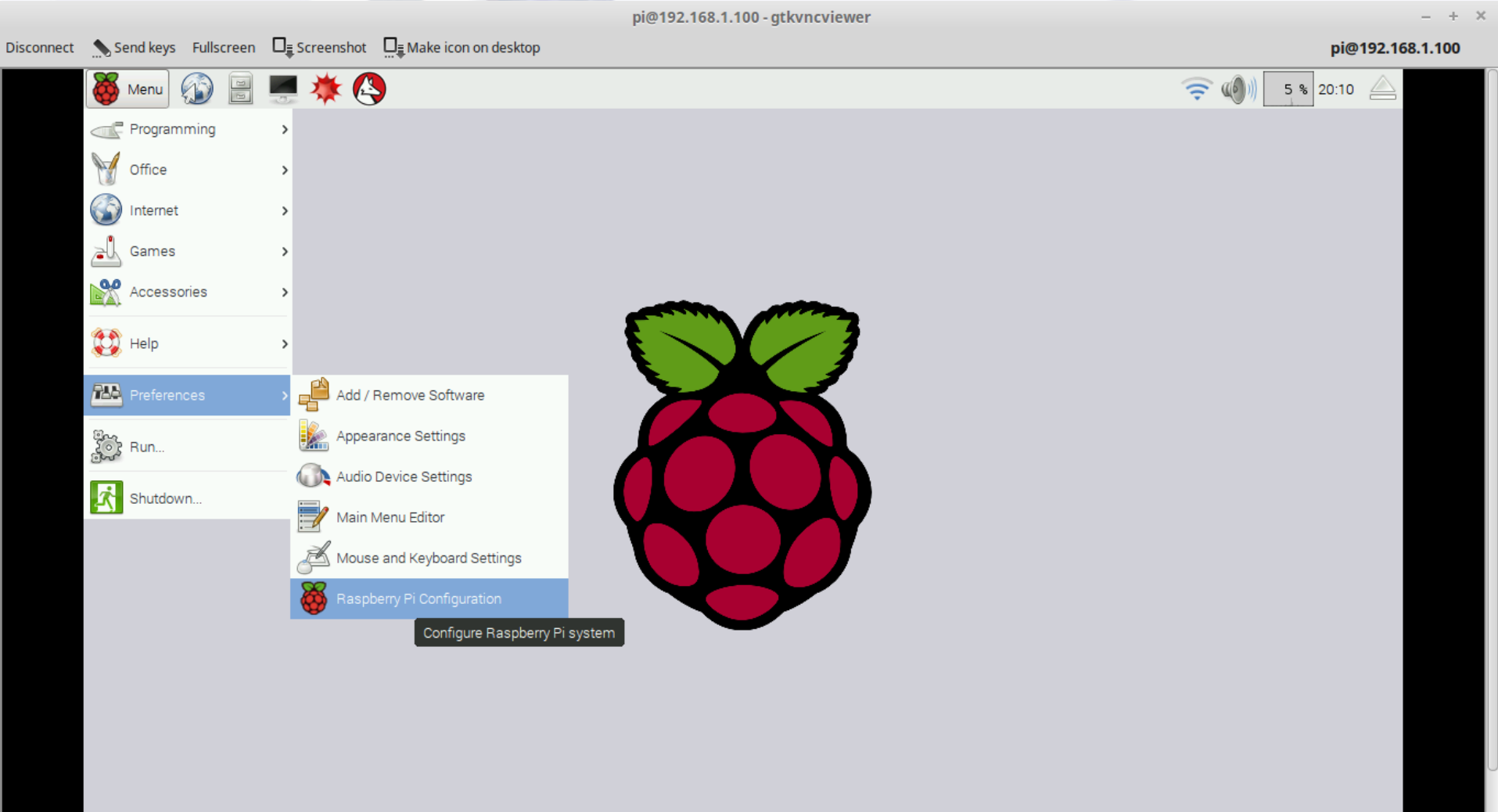
Installing OS

Download Disk Image
rpi.img

```
sudo dd if=/dev/mmcblk0 of=/media/thussain/DATA/rpi.img
```







Usage

GUI

Shell

Compiler

IDE

Installing Libraries

`sudo apt-get install library_name`

Or

`sudo synaptic`