Objectives:embed the face detention programme into an embed linux system

The experiments are to install face detection software into a target system.

Review of this week’s testing :

The week begins with a solution of cross-compilation issues, then breakdown what the components of a Linux system are and how they are put together. Both the building and the installation and configuration of the target system are covered.

The specific target discussed, a Hisilicon H3516, imposes its own default boot and bring-up behaviors;

Target

The target I chose is a Hisilicon3516 (see [Related topics](https://www.ibm.com/developerworks/linux/tutorials/l-embedded-distro/index.html" \l "artrelatedtopics) for more detail). This is a small embedded ARM system, with both built-in and removable flash storage, as well as a SATA controller.

Architecture

ARM architecture

Cross-compilation:

The IPcameras come with SDK and sample code with C++

Obtaining cross-compilation tools

Building the toolchain

Using the toolchain

Kernel setup

Building the kernel