The following presents the approach used to segment the input images and to build the ground-truth from the provided data. The reports has the following sections :

* Preprocessing of the image
* Objects detection and isolation
* İcons recognition with aim classifying and create names for subimages
* Saving subimages and text desciption files

# Image preprocessing

After the image has been red it passes through a preprocessing step aming at removing some the noise bands coming form the scan processes. These noise bands can be located on the top of the image or at the right border these bands are removed and the image is convert to gray scale. After this step the input image is ready for segmentation.

# The segmentation step

Because of the robustness they offer this step is based on statistical methods mainly the computation of the histograms. Two histograms are computed each of them being the count of pixels values in the horizontal and verical directions. These histograms display picks at position corresponding to probable lines. The graph shows an example of histogram