## High Performance Embedded Systems Assignment 1

Group #:	8
Final Grade:	37.50%

## Part I: QEMU

Item	Description	Total	Grade	Comments
Full boot deliverables	- images/ - u-boot-qemu.log - linux-qemu.log - qemu_boot.log - video.txt	15%	7.50%	Did not follow delivery instructions nor the suggested layout. The repo is a total mess.     Did not provided the required images.
Full boot execution	Correct execution of uboot, kernel and file system on QEMU based on video and local testing.	25%	5.00%	Only the video was provided.
Bonus	Add boot commands to u-boot environment	10%	0.00%	

## Part II: Yocto & NEON

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Item	Description	Total	Grade	Comments
Yocto meta-layer	Correct creation of the meta- tec layer and tec-image. Inherits from the console- image. Adds all new recipes into the tec-image and includes them in the final image.	5%	0.00%	The meta-layer does not include any valid image and it does not inherit from console-image.     tec-image.bb is not supposed to include any compilation commands for other recipes. It should only inherit from the console-image and include the required packages for the images.     The URL of the files are with absolute path - this is useless in general since it makes it dfficult to distribute.
Yocto recipes	Correct creation of the following recipes:  - rgb2yuv_c - rgb2yuv_intrinsics  This includes correct build and installation of the binaries into the file system. Also it includes the presence of the required PDF documentation.	10%	0.00%	<ul> <li>No PDF files provided within the recipes and thus, no documentation is installed in the target.</li> <li>These recipes does not compile since they are missing the .bb file.</li> </ul>
Autotools usage	Correct usage of autotools for the compilation of the programs.	10%	0.00%	- No autotools implementation
Getopt implementation	Correct usage of getopt for the command line options	5%	5.00%	
Application implementation and functionality	The application meets with the requirements proposed and is totally functional providing the correct image conversion.	25%	15.00%	- Well I had to create the recipes to test your code but I made it:) - rgb2yuv-c worked properly - rgb2yuv-intrinsics is buggy, it does not provide a valid output file, looking quickly at your code it looks like you forgot to write to the output file Wrong usage of NEON to speed up the conversion. It is expected that using NEON you can process several samples on a single instruction (SIMD) and speed up processing time. Reading the image in 3-bytes fragments and processing just that with NEON is a huge waste of resources.

## General

Item	Description	Total	Grade	Comments
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Git control versioning	The delivery is correctly made using a git repository with the layout suggested and following the required work flow. User participation from all team members. Avoid using a unified commit or last hour commits (development must be continuous)		5.00%	- It is not ideal but you tried it. Please note that direct commits to master should be avoided on any project. Ideally everything merges to develop before it goes to master.