High Performance Embedded Systems Assignment 1

Group #:	
Final Grade:	93.00%
Additional comments	Git repo was checked out at commit 5e9b473 - Jun 26th 23:58:08

Part I: QEMU

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Item	Description	Total	Grade	Comments		
Full boot deliverables	- images/ - u-boot-qemu.log - linux-qemu.log - qemu_boot.log - video.txt	15%	15.00%			
Full boot execution	Correct execution of uboot, kernel and file system on QEMU based on video and local testing.	25%	25.00%			
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%	5.00%	
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%	8.00%	- SRCREV is only required when your source code is located in an external service such as git, it is not necessary for local files When using autotools and in general most of the packages, it is easier and better to put the source code into a tarball instead of separate files The recipe for rgb2yuv-c did not finished correctly because of output.yuv file name problem.
Autotools usage	Correct usage of autotools for the compilation of the programs.	10%	10.00%	
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%	25.00%	- Need to indent the code - it makes it easier to follow and it looks better It is not necessary to use that many flags in the getopt, if it can be reduced to a few lines of code or a function call it is better to do it in place, this makes the code more readable Do not mix camelCase with snake_case, it looks bad Variable names should usually be more descriptive to make the code easier to follow In general, any commented code should be deleted, it is useless and under version control it is unnecessary to leave it there For this kind of operations: unsigned char RGB_buffer[charCounter]; It is way better to use dynamic memory allocation using malloc();

General

Item	Description	Total	Grade	Comments		
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)		0.00%	- There are not signs of participation from other team members Git flow did not follow the required approach, you should always avoid to make changes directly to master.		