Programmation des systémes

March 14, 2016

Exercises and practical things

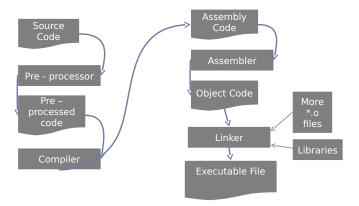
- Use gameboy hardware/platform to program (in c/c++ or assembly)
- Purpose of the TPs
 - Understand the concepts taught in the course
 - Finally to build your own game
 - Have fun
- TPs are not graded but, mandatory to submit your programs
- We are here to help
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Systems Programming

Broader view of systems programming

Арр	lication Programs
9	System API
	Kernel
(Proces	Hardware sor, Meomory, I/O)

Compilation process



Compilation process for GBA

- GBA has a 32bit ARM processor on RISC architecture (16.78 MHz)
- 96 KB of video memory, 32KB of internal ram and 256KB of external ram
- In our TPs, we compile the source on a PC and build an executable for GBA
- This is called cross compilation
- Therefore we need GBA hardware specific compiler (gcc for ARM)

References and Material

- In Chamilo under Documents
- under 2016, slides and TPs
- VGBAIDE
- HAM executable
- Book on GBA programming
- Some other material from last years