Digital Design and Computer Architecture LU

Lab Protocol

Exercise I

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Task 1: Introduction and Preparations

Task 2: GameCube Controller

Analyse the resource usage of your gc_cntrl! You can find this information in the compilation report under the entry "Analysis&Synthesis".

| Combinational ALUTs | Dedicated Logic Registers |
| Absolute number | % of whole design | % of whole FPGA resources |

- END Subtask 2 —

Task 3: Decimal Printer

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Subtask 3
Include the state graph of the state machine you designed and briefly explain how it works.

You can use dia to draw the diagram. The provided makefile automatically converts dia files to PDFs and places them in the dia/pdf directory. However, any other method for drawing pictures is also fine.

