**02132 Assignment 2 report**

**Hardware implementation in Chisel of a small CPU running the image erosion**

<date>

**Group <number>**<Member 1 full name> - <Member 1 student number>  
<Member 2 full name> - <Member 1 student number>  
<Member 3 full name> - <Member 1 student number>

**Work distribution**

Explain here who has done what, for both implementation and report.

**Design**

Explain here what the design process was. List and describe your ISA and how the instructions are encoded. List and describe your compiled program (put a reference to attached file if the compiled program is too long to fit here). Show and describe the bock diagram of your CPU. Motivate the design decision you made.

**Implementation**

Briefly discuss the implementation in Chisel of your design. You can include some code snippets if these are relevant to explain certain aspects of the implementation. In other words, try to answer the question “What does a reader need to know about your Chisel implementation?”

**Test and evaluation**

Report here the results from the test you have carried out. Present the test you have developed (if any). Remember to discuss the results and the test you have carried out, do not just present them, but explain and argue their meaning. Address the design evaluation questions listed in Task 11 in the Assignment 2 document

**References**

List here the references that you have used (if any). It can be articles or websites where you have found inspiration, understanding, and ideas.

**NOTE: the report should not be longer than 10 pages (everything included). The report should be "directly-to-the-point", without re-explaining and presenting the basic ideas already presented in the assignment document. <Delete this note in your report.>**