Rapport du projet d'ASR 1 $\,$

PAULIN LOIS, STAUB RUBEN

4 janvier 2016

1 Partie 1 : Processeur avec pipeline

1.1 Étage	\mathbf{IF}	
Question 1:		Pourrais- tu me
ProcoDeal/bl	Voir version correspondante: https://github.com/Plopounet13/ob/628117f505d9bed9d1d7132adda3f4aa45548440/ProcoDeal.ur le fichier brut.	mettre u exemple définition histoire
1.2 Étage	· 11 <i>)</i>	que je puisse m
Question $1:$		inspirer
Question 2:		
Question 3:		
Question 4:		
ProcoDeal/bl	Voir version correspondante: https://github.com/Plopounet13/ob/628117f505d9bed9d1d7132adda3f4aa45548440/ProcoDeal.ur le fichier brut.	
1.3 Étage	\mathbf{EX}	
Question $1:$		
Question 2:		
Question 3:		
Question 4:		
Question 5:	Voir version correspondante: https://github.com/Plopounet13/	

ProcoDeal/blob/628117f505d9bed9d1d7132adda3f4aa45548440/ProcoDeal.

circ ou ici pour le fichier brut.

1.4 Étage MEM

Question 1:

Question 2:

Question 3: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/628117f505d9bed9d1d7132adda3f4aa45548440/ProcoDeal.circ ou ici pour le fichier brut.

1.5 Étage WB

Question 1:

Question 2:

Question 3: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/628117f505d9bed9d1d7132adda3f4aa45548440/ProcoDeal.circ ou ici pour le fichier brut.

1.6 Pipeline

Question 1: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/628117f505d9bed9d1d7132adda3f4aa45548440/ProcoDeal.circ ou ici pour le fichier brut.

1.7 Assembleur RiSC-16

Question 1:

Question 2:

2 Partie 2 : Pipeline avec logique bypass

2.1 Étage WB

Question 1:

Question 2: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/3016e78db55d66684f28d8adf5c98ce117739173/ProcoDeal.circ ou ici pour le fichier brut.

2.2 Étage MEM

Question 1:

Question 2: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/3016e78db55d66684f28d8adf5c98ce117739173/ProcoDeal.circ ou ici pour le fichier brut.

2.3 Étage EX

Question 1:

Question 2:

Question 3: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/3016e78db55d66684f28d8adf5c98ce117739173/ProcoDeal.circ ou ici pour le fichier brut.

2.4 Pipeline

Question 1: Voir version correspondante: https://github.com/Plopounet13/ProcoDeal/blob/3016e78db55d66684f28d8adf5c98ce117739173/ProcoDeal.circ ou ici pour le fichier brut.

2.5 Assembleur RiSC-16

Question 1 : Dans le programme donné : lui r2, 10 beq r1, r2, label addi r2, r2, 1

Mais le vrai problème est que lors de l'instruction beq, le changement d'adresse de la prochaine instruction (adresse de l'instruction pointée par label) est calculée à partir de l'étage EXE. Ainsi,

Question 2:

3 Partie 3 : Mapping memory

3.1 Étage MEM

Question 1:

3.2 Memory mapping

Question 1:

Question 2:

3.3 Pipeline

Question 1:

3.4 Assembleur RiSC-16

Question 1:

Item	Quantity
Widgets	42
Gadgets	13

Table 1 – An example table.

4 Introduction

Si tu es un peu rouillé en Latex, il y a quelques exemples après...

5 Some LaTeX Examples

5.1 How to Leave Comments

Comments can be added to the margins of the document using the todo command, as shown in the example on the right. You can also add inline comments :

This is an inline comment

Here's a comment in the margin!

5.2 How to Include Figures

First you have to upload the image file (JPEG, PNG or PDF) from your computer to writeLaTeX using the upload link the project menu. Then use the includegraphics command to include it in your document. Use the figure environment and the caption command to add a number and a caption to your figure. See the code for Figure ?? in this section for an example.

5.3 How to Make Tables

Use the table and tabular commands for basic tables — see Table 1, for example.

5.4 How to Write Mathematics

IATEX is great at typesetting mathematics. Let X_1, X_2, \ldots, X_n be a sequence of independent and identically distributed random variables with $\mathrm{E}[X_i] = \mu$ and $\mathrm{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^{n} X_i$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

5.5 How to Make Sections and Subsections

Use section and subsection commands to organize your document. LATEX handles all the formatting and numbering automatically. Use ref and label commands for cross-references.

5.6 How to Make Lists

You can make lists with automatic numbering ...

- 1. Like this,
- 2. and like this.
- ...or bullet points ...
 - Like this,
 - and like this.
- \ldots or with words and descriptions \ldots

Word Definition

Concept Explanation

 $\mathbf{Idea} \ \mathrm{Text}$

We hope you find write IATEX useful, and please let us know if you have any feedback using the help menu above.