

BLG222E

Computer

Organization

Project 2

Group Number: 37

Group Members:

- 1 - 150150729 Elif Nur Hasg l (hasgule15@itu.edu.tr)
- 2 - 150140055 İsmail Salih Namdar (namdari@itu.edu.tr)
- 3 - 150150151 İsmet Ata Yardımcı (yardimci15@itu.edu.tr)
- 4 - 150140032 Kadir Emre Oto (otok@itu.edu.tr)

1 INTRODUCTION

We designed a 8-bit input and 8-bit output Arithmetic Logic Unit which performs some arithmetic, logic and shifting operations with a register in this project according to the Figure 1.

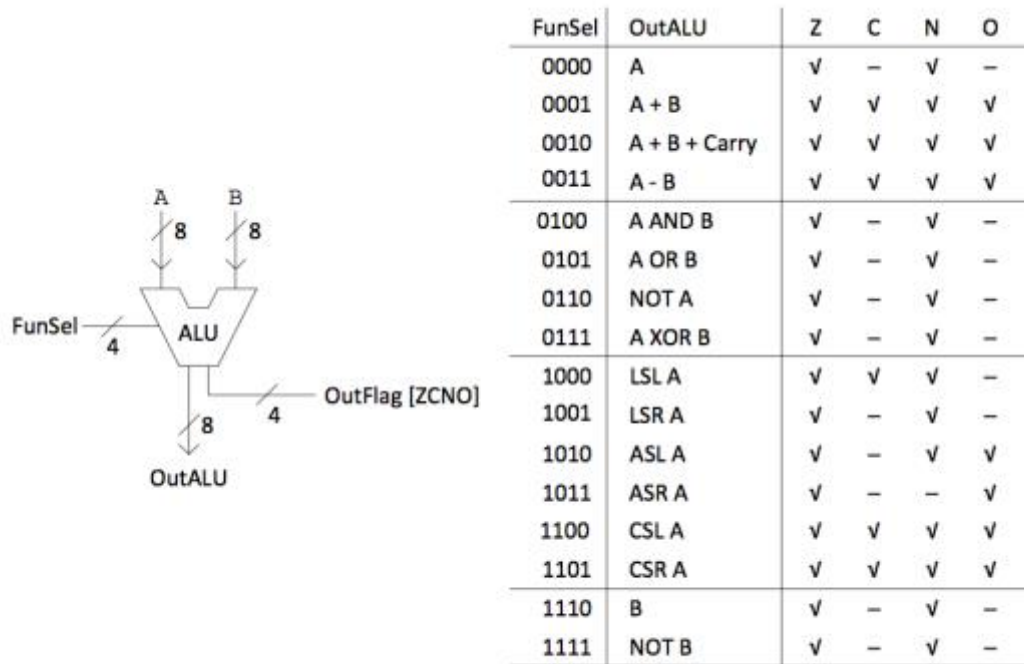


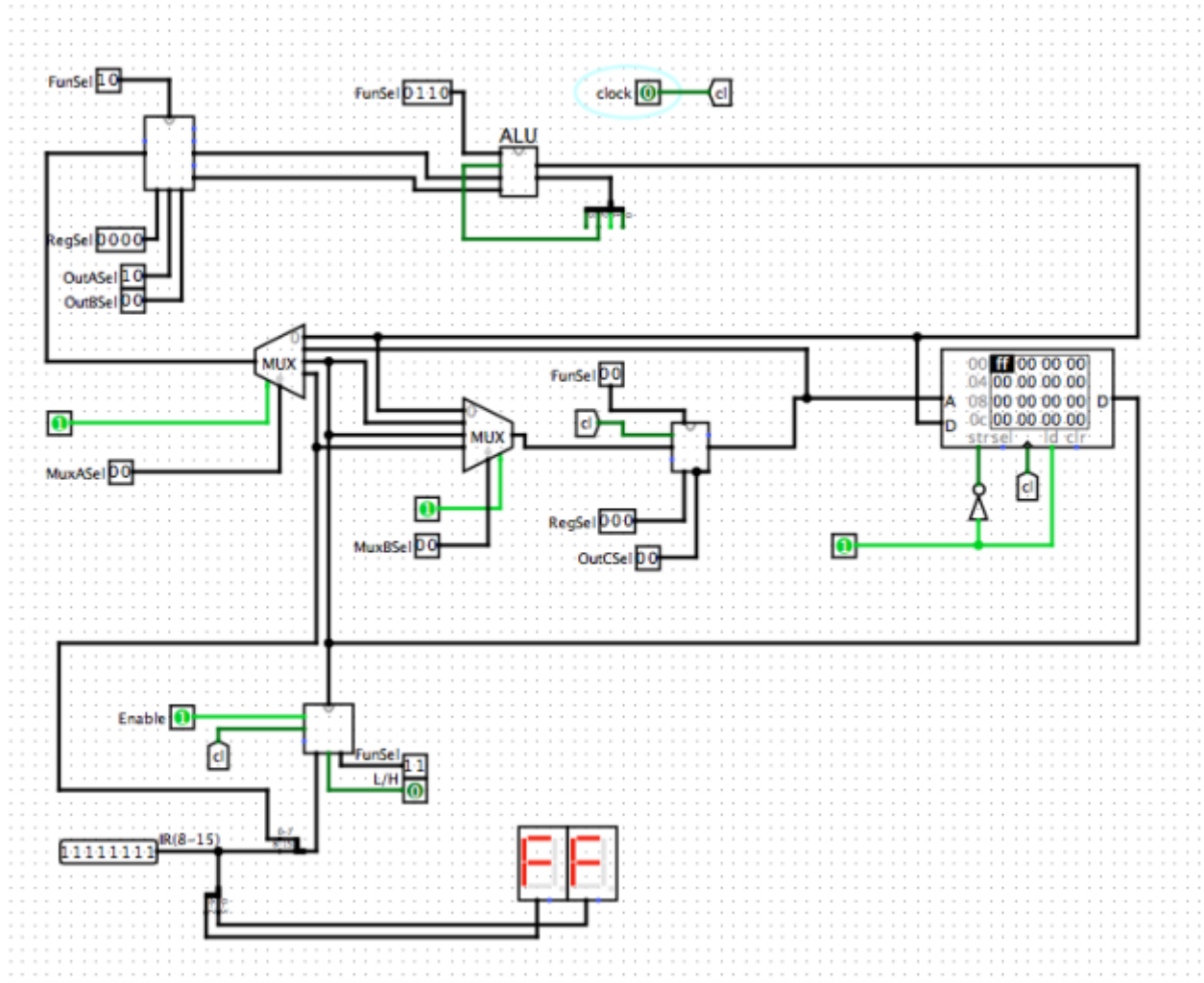
Figure 1: The ALU (Left) and its characteristic table (Right)

Then we designed an ALU System implementation according to this table.

MuxASel	MuxAOut	MuxBSel	MuxBOut
00	OutALU	00	OutALU
01	Address	01	ϕ
10	Memory Output	10	Memory Output
11	IROut (0-7)	11	IROut (0-7)

2 CONCLUSION

Those are our final circuits.



8 Bit - ALU

