Function Unit

		7
Order of micro-operations	1st	F=A OR B
	2nd	F=A XOR B
	3rd	F=A AND B
	4th	F=B
	5th	F=A-1
	6th	F=slB
	7th	F=A+1's c B+1
	8th	F=A (FS=00111)
	9th	F=A+1's c B
	10th	F=srB
	11th	F=A+B+1
	12th	F=1's c A
	13th	F=A+B
	14th	F=A (FS=00000)
	15th	F=A+1

Input A : 00000001010001100000011010010001 = 1460691

Input B : 00000001010001100000011010011000 = 1460698

Not B : 11111110101110011111100101100111

Expected Result:

1. A or B = 00000001010001100000011010011001 = 1460699
2. A xor B = 00000000000000000000000000001001 = 00000009
3. A and B = 00000001010001100000011010010000 = 1460690
4. B = 00000001010001100000011010011000 = 1460698
5. A − 1 = 00000001010001100000011010010000 = 1460690
6. Sl B = 00000010100011000000110100110000 = 028C0D30
7. A + not B + 1 = 11111111111111111111111111111001 = FFFFFFF9
8. A = 00000001010001100000011010010001 = 01460691
9. A + not B = 11111111111111111111111111111000 = FFFFFFF8
10. Sr B = 00000000101000110000001101001100 = 00A3034C
11. A + B + 1 = 00101000110000001101001010101010 = 28C0D2A
12. Not A = 11111110101110011111100101101110 = FEB9F96E
13. A + B = 00101000110000001101001010101001 = 028C0D29
14. A = 00000001010001100000011010010001 = 01460691
15. A + 1 = 00000001010001100000011010010010 = 01460692