|  |  |  |
| --- | --- | --- |
| Cases | FS4 | C |
| A | 0 | C\_ALU |
| B | 1 | C\_Shift |

The C Flag multiplexer takes in the carry bits of the Arithmetic Logic Unit and the Shifter and outputs the bit from the ALU if FS4 = 0 and outputs the bit from the Shifter if FS4 = 1.