|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cases | S1 | S2 | G | C |
| A/E | 0 | 0 | B | 0 |
| B/D | 1 | 0 | SrB | Bit 0 |
| C/F | 0 | 1 | slB | Bit 31 |

The 32 bit shifter takes in a 32-bit value and does a shift operation on it based on the values of S1 and S2. When shifted right, the value of Bit 0 of B is outputted from the C Flag, and when shifted left the same happens with Bit 31. If both S1 and S2 = 0, B is outputted without being shifted.