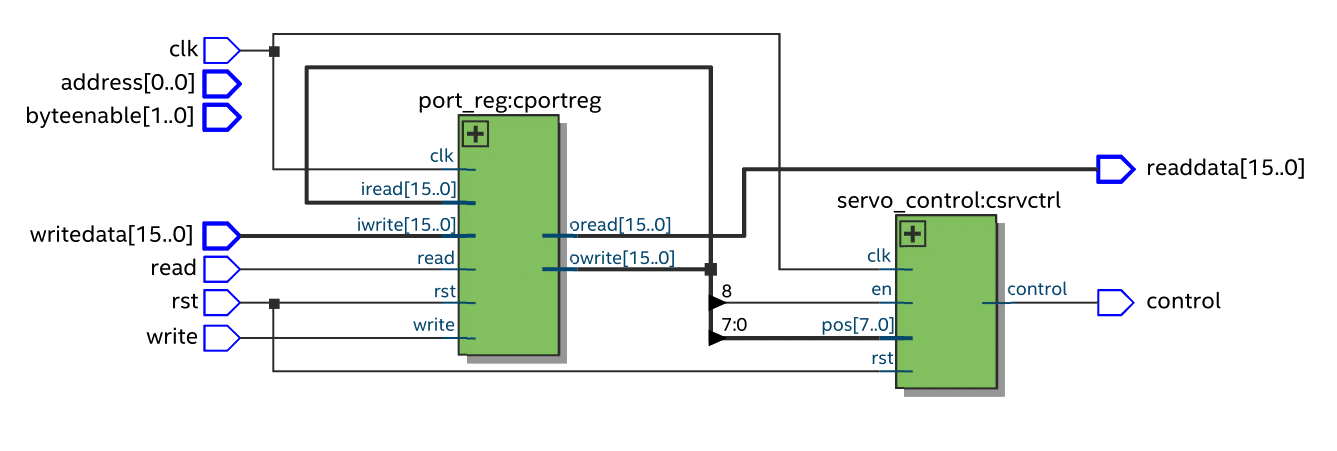
**Servo Controller**

[servo\_control\_port]

The servo control component uses a position value to output a 1-2ms pulse for the control of servos.

It must be driven by a 100MHz clock signal (sys\_clk) to output with proper timing. The component is wrapped by a port, which presents an Avalon MM-Slave interface.

In the system, two of these components are mapped at 0xff200070 and 0xff200080.



**Register Map:**

|  |  |  |
| --- | --- | --- |
| 15 - 9 | 8 | 7 - 0 |
| Res. | EN | POS |
|  | rw | rw |

Bits 15:9: Reserved

Bit 8: **EN**: Component enable

Active-high enable

Bits 7:0: **POS**: Servo position

Values from 0-200 set the position of the servo (-90° to 90°)

Values above 200 (0xc8) cause the component to reset