Greatest Common Divisor

Original Problem Statement

```c
int x, y;
while (1) {
    while (!go_i);
    x = x_i;
    y = y_i;
    while ( x != y ) { //
        if ( x < y ) {
            y = y - x;
        }
        else {
            x = x - y;
        }
        d_o = x;
    }
}
```
Activity of Slave (on Write)

Activity of Slave (on Read, Write)
Activity of Slave

Block Diagram