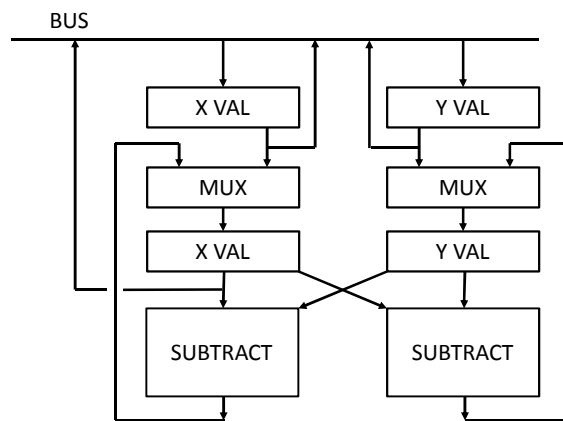


Greatest Common Divisor

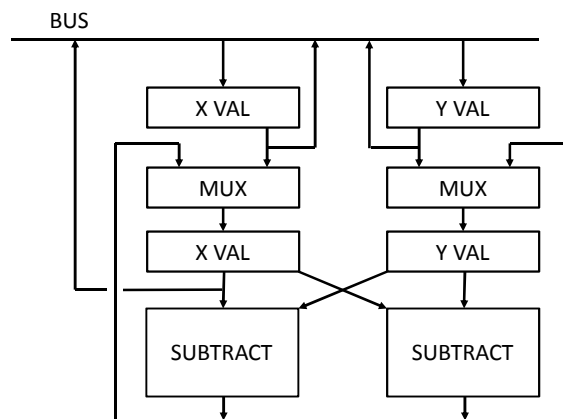
Original Problem Statement

```
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;  
}
```

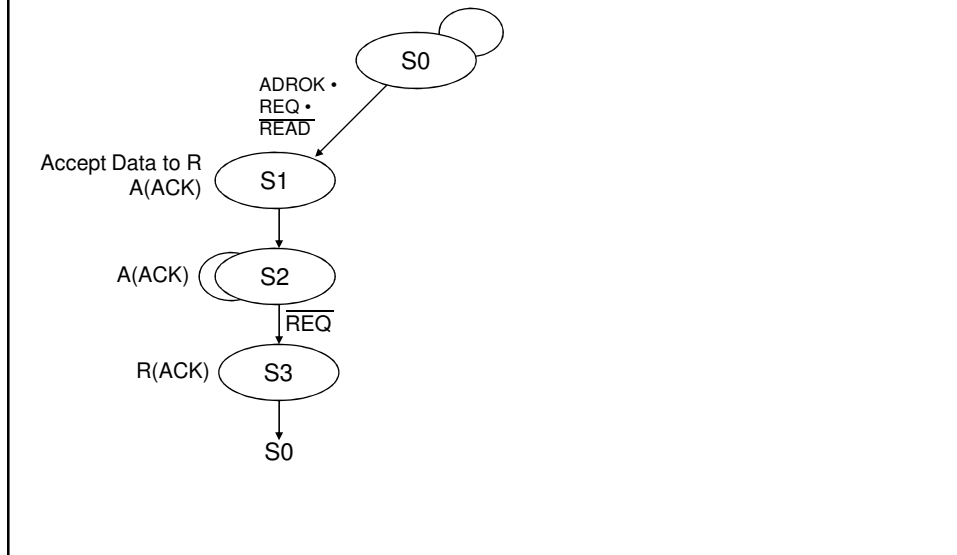
Block Diagram



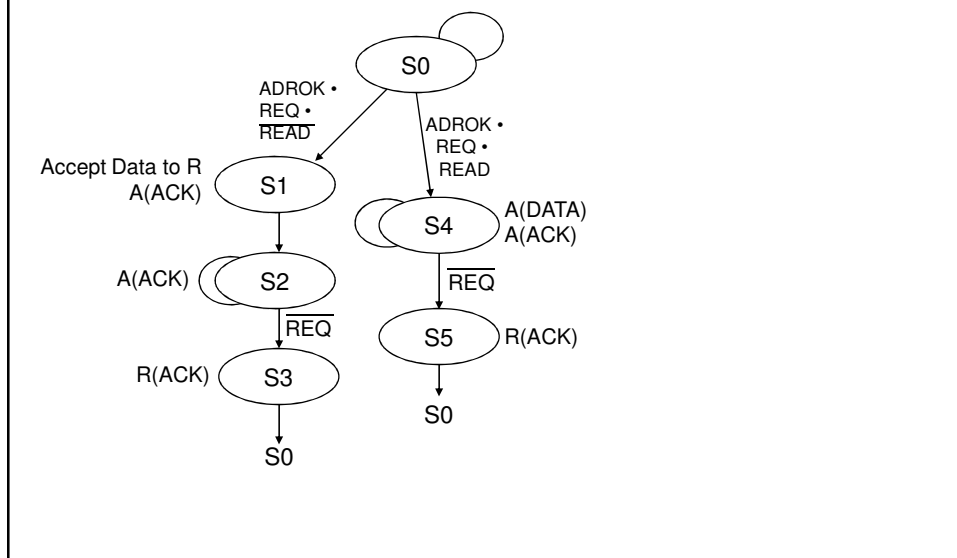
Block Diagram



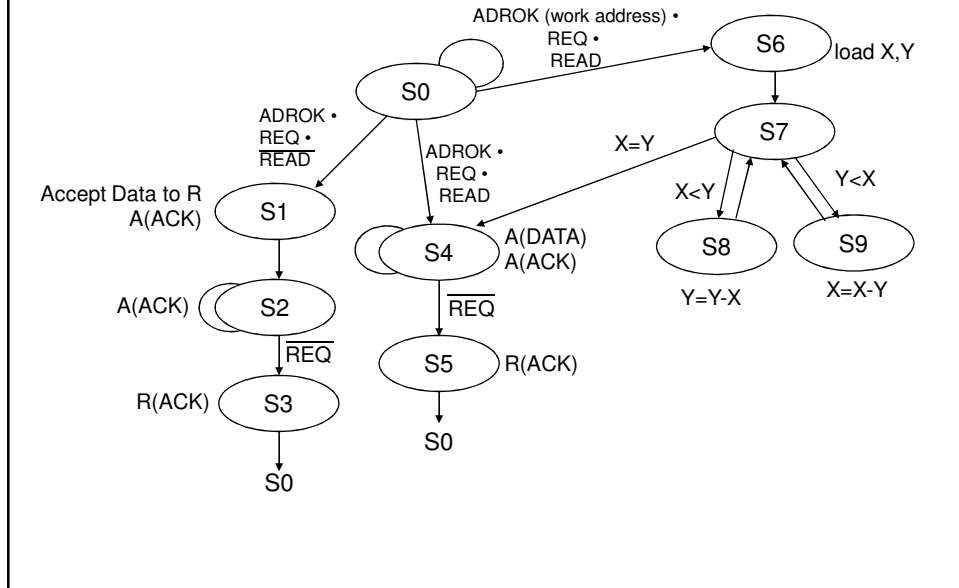
Activity of Slave (on Write)



Activity of Slave (on Read, Write)



Activity of Slave



Block Diagram

