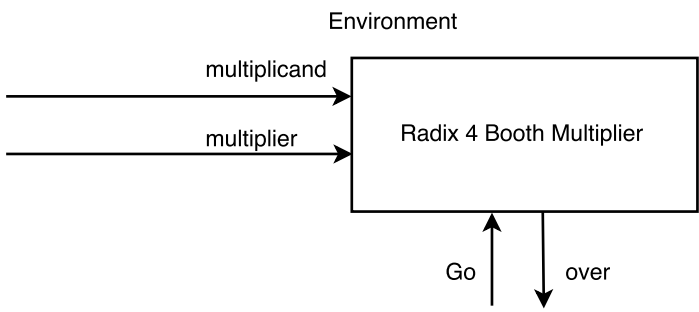


Controller Schematic diagram



Datapath diagram

Operations of ALU :

add1 : $Z \leftarrow X + Y$
add2 : $Z \leftarrow X + 2Y$
sub1 : $Z \leftarrow X - Y$
sub2 : $Z \leftarrow X - 2Y$

app : appended bit

