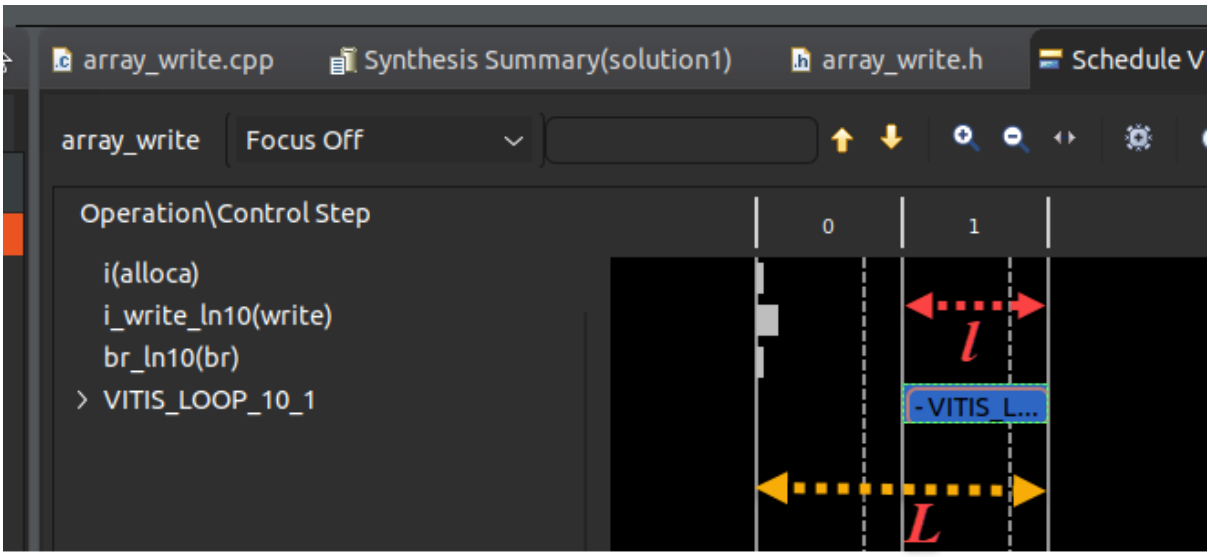
❖ array_write

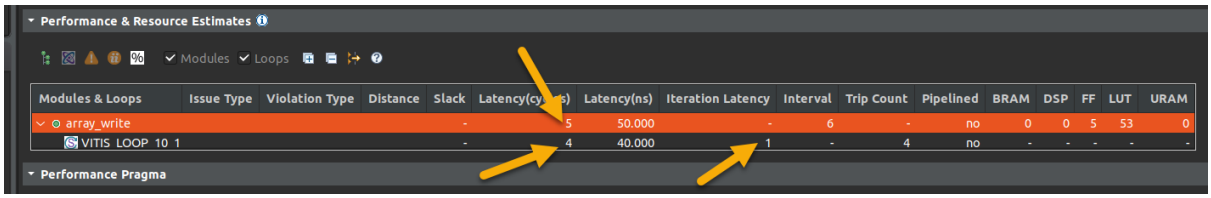
According to the following scheduling diagram, the loop iteration latency is 1 ($l = 1$). As there are four loop iterations, therefore, the total loop latency would be $4 * 1 = 4$.

We should add the first sycle to the loop latency to get the total function latency, that is

$$L = 1 + 4 = 5$$



You can see these latencies in the scheduling report below.

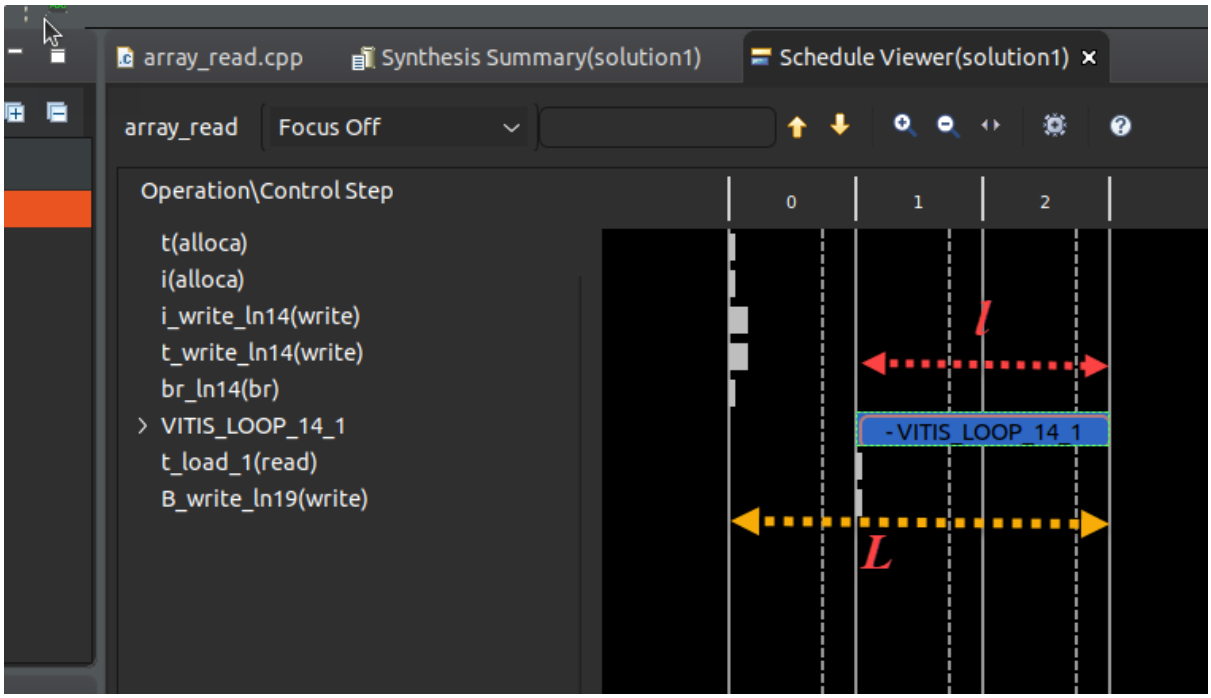


❖ array_read

According to the following scheduling diagram, the loop iteration latency is 2 ($l = 2$). As there are four loop iterations, therefore, the total loop latency would be $4 * 2 = 8$.

We should add the first sycle to the loop latency to get the total function latency, that is

$$L = 1 + 8 = 9$$



You can see these latencies in the scheduling report below.