**Multiple –Bus Organization:**

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**Example:** Write the control steps to fetch and execute the following instruction in multiple- bus CPU:

**ADD R4, R5, R6**

1 PCout, R=B, MARin, Read, Inc PC

2 WMFC

3 MDRout **B**, R=B , IRin

4 R4out **A,** R5out **B**, Select A, Add, R6in, End.

**EX:** Write the control steps to fetch and execute the following instruction in multiple- bus CPU:  **Add (R4), R5,R6**

1 PCout, R=B, MARin, Read, Inc PC

2 WMFC

3 MDRout **B**, R=B , IRin

4 R4out **B** , R=B, MARin , Read

5 WMFC

6 MDRout **B** , R5out **A**, Select A, Add, R6in, End.