

```
1 SystemComponentArchitecture SystemC_SIM
2 {
3   ComponentInstance A instantiates ComponentA
4   {
5     ProvidedService Push_Coordinate3D_Output_Port
6     ProvidedService Query_ValidCoordinate2D_Answer_Port
7   }
8   ComponentInstance B instantiates ComponentB
9   {
10    RequiredService Query_ValidCoordinate2D_Request_Port
11    ProvidedService Send_Coordinate2D_Input_Port
12  }
13  ComponentInstance C_SIM instantiates ComponentC_TS
14  {
15    RequiredService Push_Coordinate3D_Input_Port_sim
16    RequiredService Send_Coordinate2D_Output_Port_sim
17    RequiredService Query_ValidCoordinate2D_Answer_Port_ts
18    RequiredService Query_ValidCoordinate2D_Request_Port_sim
19    ProvidedService Push_Coordinate3D_Input_Port_ts
20    ProvidedService Send_Coordinate2D_Output_Port_ts
21    ProvidedService Query_ValidCoordinate2D_Answer_Port_sim
22    ProvidedService Query_ValidCoordinate2D_Request_Port_ts
23  }
24  Connection C_SIM.Push_Coordinate3D_Input_Port_sim -> A.Push_Coordinate3D_Output_Port
25  Connection C_SIM.Query_ValidCoordinate2D_Request_Port_sim -> A.Query_ValidCoordinate2D_Answer_Port
26  Connection C_SIM.Send_Coordinate2D_Output_Port_sim -> B.Send_Coordinate2D_Input_Port
27  Connection B.Query_ValidCoordinate2D_Request_Port -> C_SIM.Query_ValidCoordinate2D_Answer_Port_sim
28 }
```