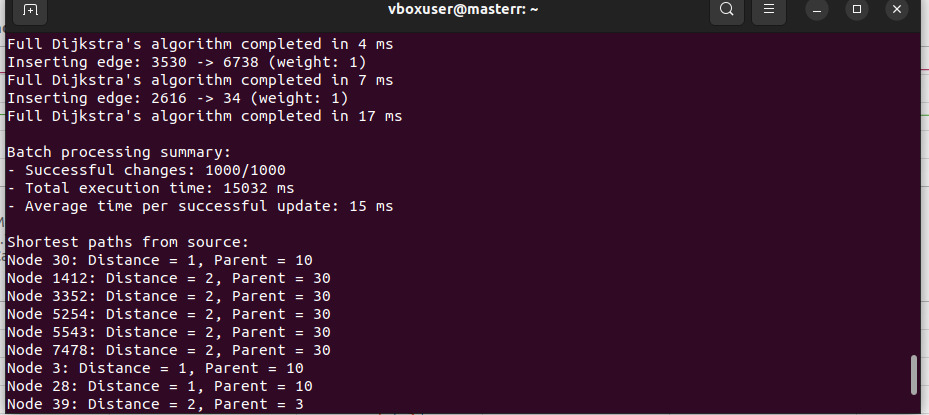
**PDC PROJECT**

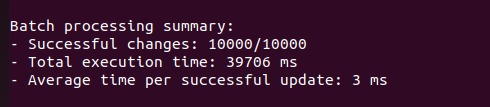
**Group Members:**

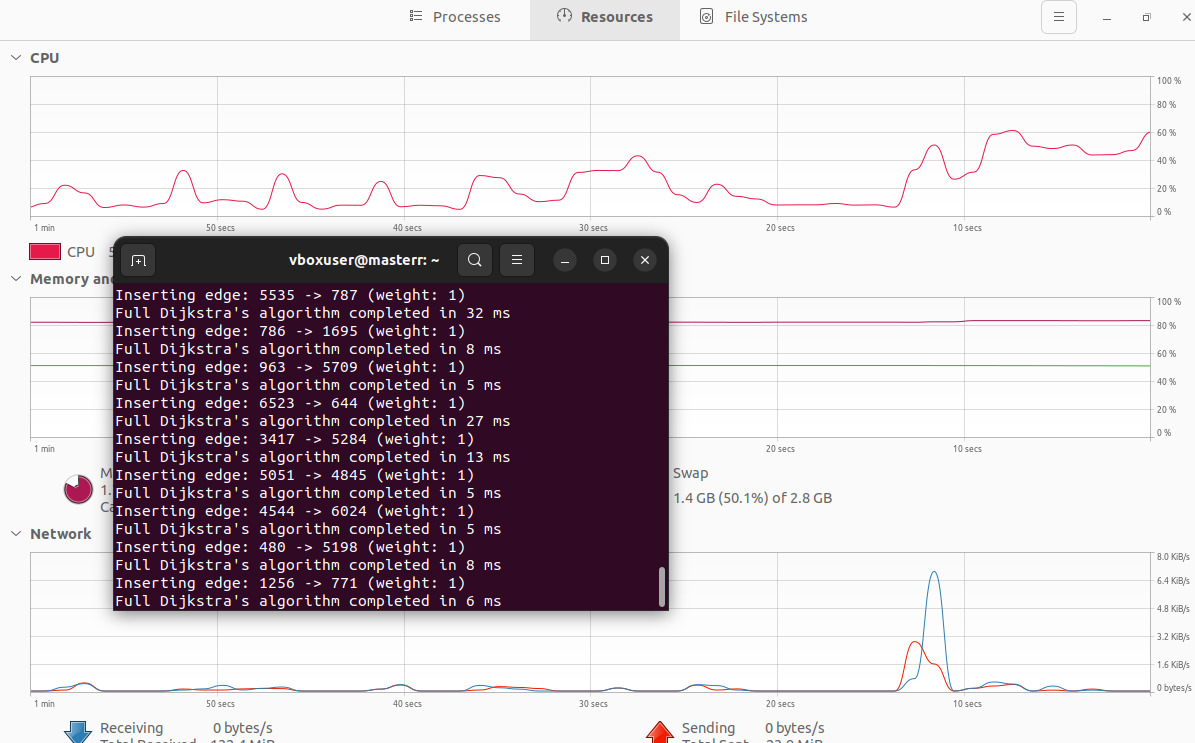
**Hammad Shabbir: 22I-1140  
Iqrash Qureshi: 22i-1174  
Haider Zia: 22i-1196**

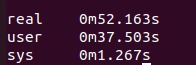
**Single Source Shortest Path**

**Sequential Analysis:**

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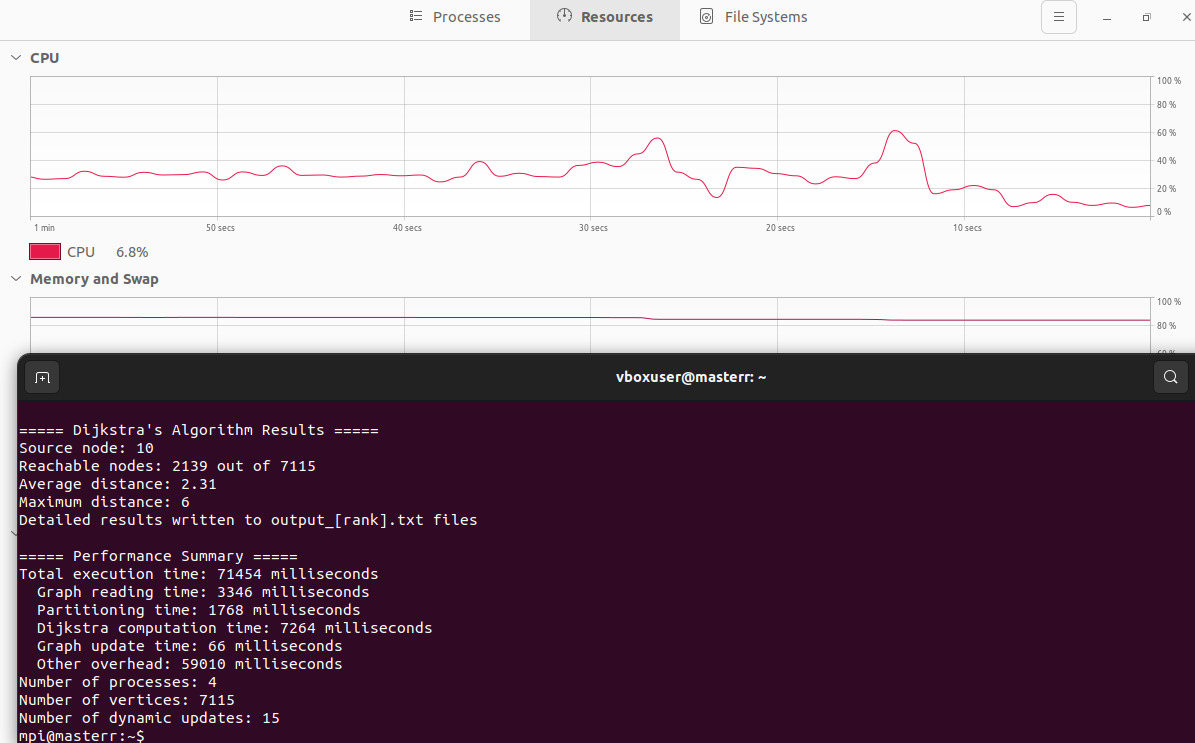
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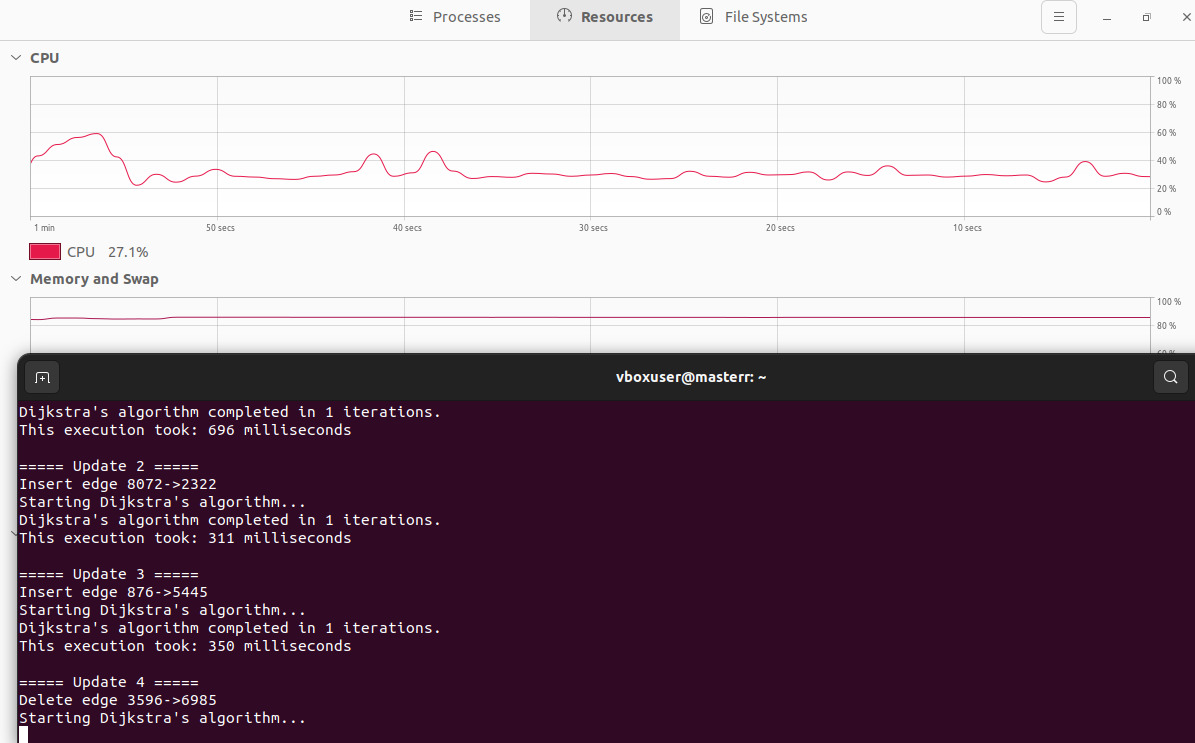
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**MPI Analysis:**

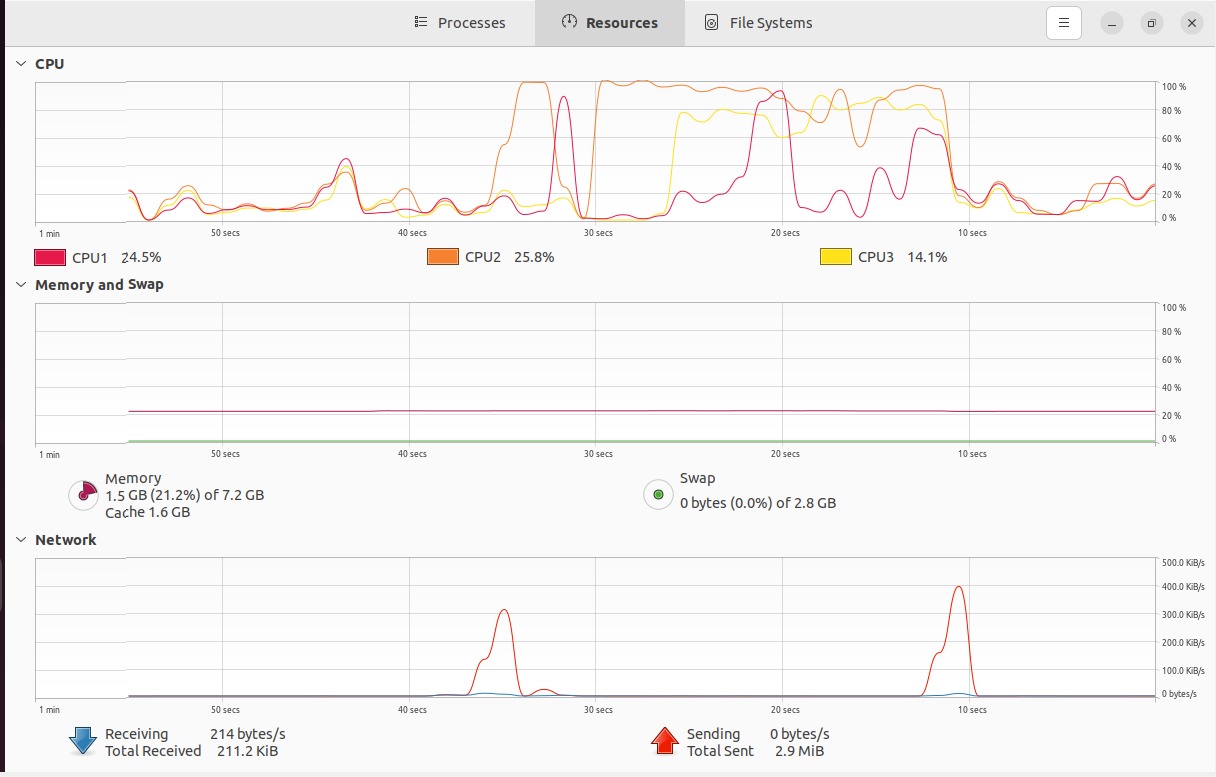
Mpi execution time is better than Sequential.

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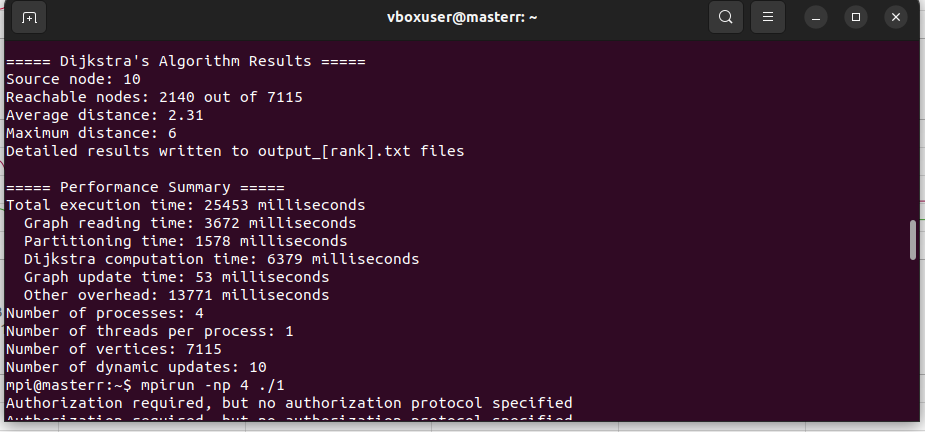
**MPI with Slave/Master Analysis:**

This graph shows that, our process divide on master and slave 2 in each, and their performance graph as given below.

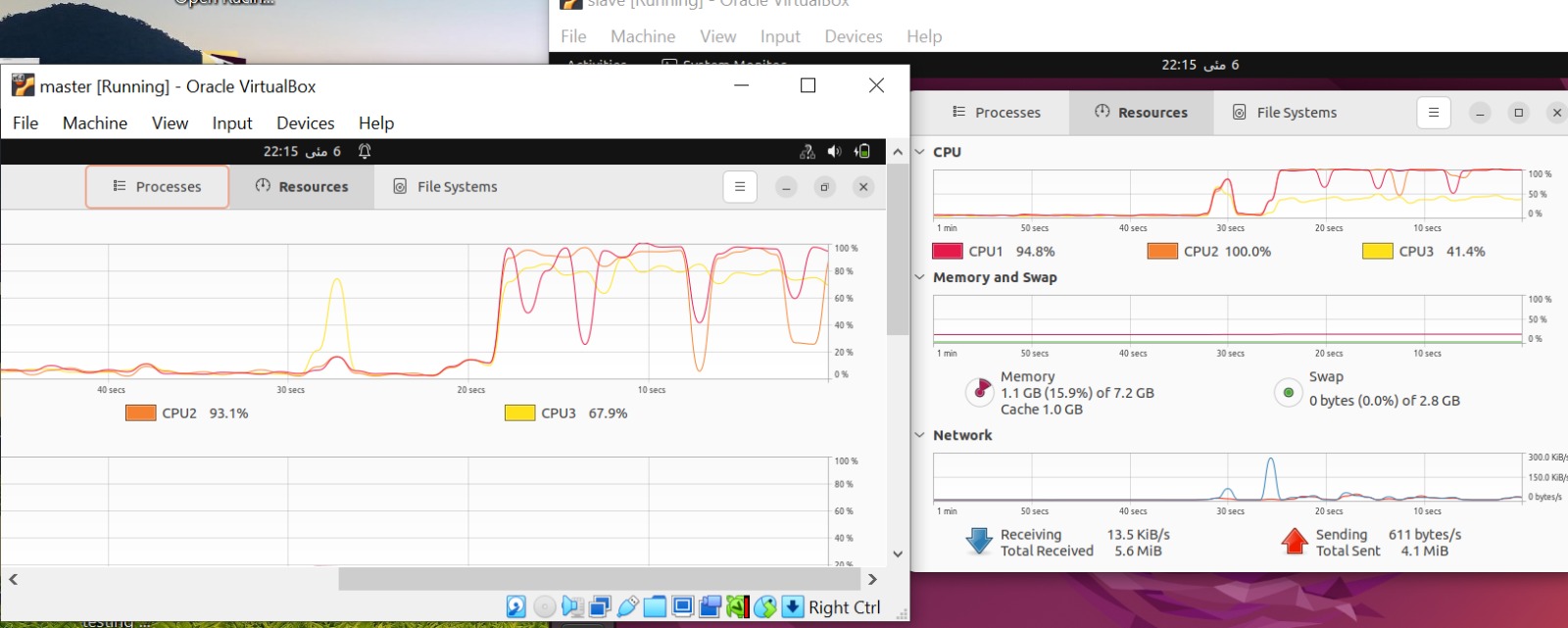
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**OpenMP:**

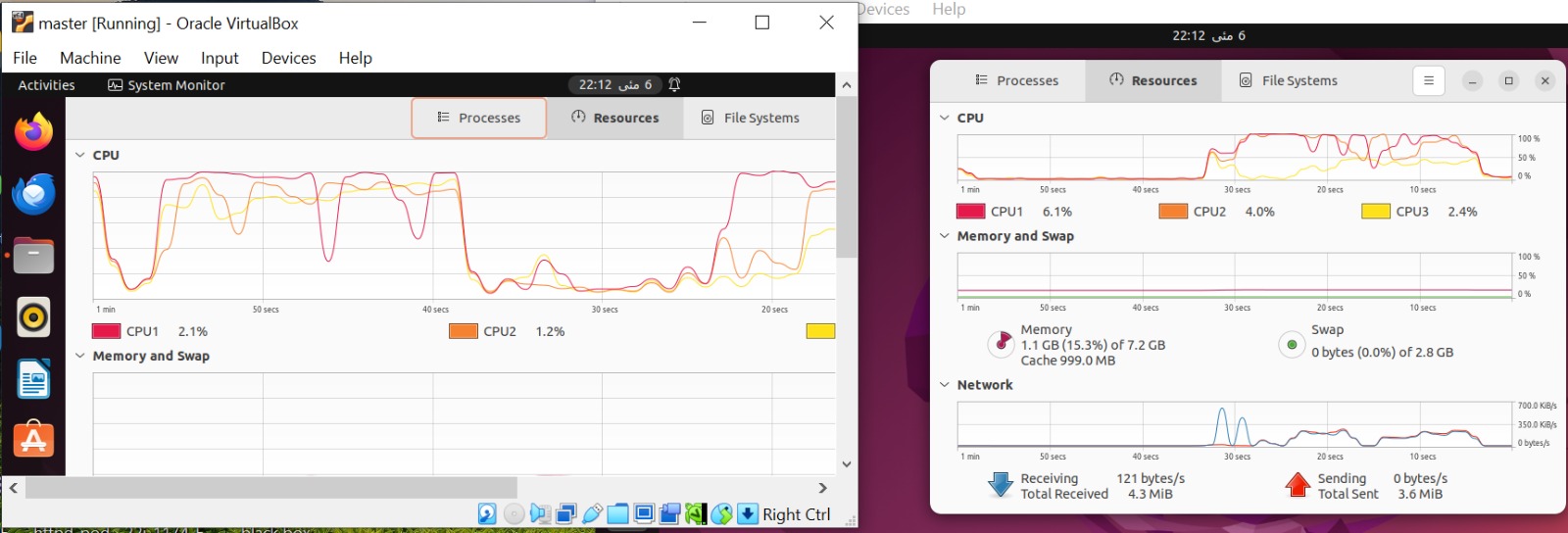
Open-Mp improves the execution time as compare to MPI!!!

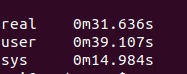
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**4 Master & 4 Slave.**

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**2 Master & 2 Slave**

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**OpenMP > MpI > Sequential**