| | | Serial | Parallel |
|---|---|---|---|
| PC_data_t00100 | time | 23.000000s | 15.000000s |
| | clock | 23.200000s | 25.889999s |
| | command | real 0m23.280s<br>user 0m23.210s<br>sys 0m0.005s | real 0m15.022s<br>user 0m25.871s<br>sys 0m0.023s |
| PC_data_t01000 | time | 215.000000s | 139.000000s |
| | clock | 215.199997s | 239.949997s |
| | command | real 3m35.259s<br>user 3m35.208s<br>sys 0m0.010s | real 2m19.646s<br>user 3m59.911s<br>sys 0m0.051s |
| PC_data_t05000 | time | 1104.000000s | 716.000000s |
| | clock | 1103.560000s | 1228.940063s |
| | command | real 18m23.693s<br>user 18m23.558s<br>sys 0m0.012s | real 11m55.630s<br>user 20m28.849s<br>sys 0m0.108s |
| PC_data_t10000 | time | 2232.000000s | 1473.000000s |
| | clock | 2231.979980s | 2512.369873s |
| | command | real 37m12.130s<br>user 37m11.970s<br>sys 0m0.026s | real 24m33.211s<br>user 41m52.069s<br>sys 0m0.316s |

This table is the performance comparison between “serial” and “parallel”. And we can see that by using one thread for the producer module and a second thread for the consumer:

1. “time” is about half of “clock”
2. “real” is about half of “user”
3. “clock” and “user” are a little bit longer than them in “serial”