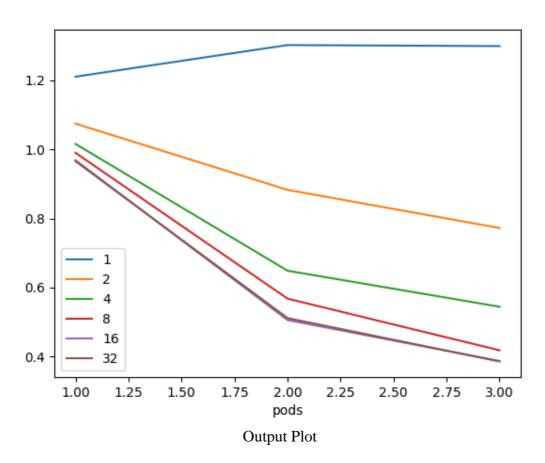
Name: Kshitij Pandey ID: 30764505 Login: kpan0021

Tutor: Shashikant Ilager

Observation:



pods/threads	1	2	4	8	16	32
1	1.210754054	1.07466154	1.015911985	0.990086434	0.96883608	0.965916321
2	1.302374195	0.882770702	0.648522336	0.567662774	0.50558925	0.511282086
3	1.299420508	0.772326633	0.544183234	0.417940905	0.386723367	0.385585282

The final data after testing

After running 4 tests for each thread vs pod count and calculating the average of all the values by dividing it by the number of images which is 128, I finally got this plot. Following observations have been made after testing:

For thread 1 and pod 1 the average response time has been higher since the whole load is on a single pod. We can see some improvements for 2 threads vs 1 pod since

- the request is now being divided into 2 threads. This improves as we keep increasing the number of threads from 2 to 4 and from 4 to 8 but the response time does not improve much after the number of threads reach 16 and 32.
- 2. We see the same trend for 1 thread vs 2 pods because even though we have increased the number of pods the request being sent is still in one thread but as soon as we increase the request thread from 1 to 2 and so on we see major improvements in response time from the n thread vs 1 pod because now the request is being sent simultaneously over multiple threads and now there are 2 pods to handle those requests.
- 3. For 3 pods the initial request with 1 thread still has a high response time since a single thread is sending all the 128 images but we see a drastic improvement as soon we start increasing the number of threads. Now with multiple request threads and 3 pods the load is getting balanced properly and the response time has improved significantly.
- 4. Still the average response time is almost the same when we reach 16 or 32 as number of threads. For threads 16 and 32 vs 2 and 3 pods we see that the response time is almost the same for each combination of thread vs pod.
- 5. This can be observed in the plot since the last 2 lines have almost merged with each other since the difference between their response time is almost equal.