

VQA

Mar 04, 2021 to Mar 10, 2021



Status Update

➔ FSS DGX and MIT DGX are executing the multitask for experiment 1.

train_1276	In Progress...	95.9%	0.2958984375	10 days, 9:47:54.461582
train_1277	Finished	100%	0.3037109375	7 days, 5:23:27.981829
train_1278	In Progress...	92.2%	0.833984375	10 days, 9:47:54.461668
train_1279	Finished	100%	0.837890625	7 days, 4:32:38.055676
train_1280	In Progress...	90.9%	0.9716796875	10 days, 9:47:54.461744
train_1281	Finished	100%	0.9169921875	7 days, 6:01:49.390257
train_1282	In Progress...	90.0%	0.9423828125	10 days, 9:47:54.461820
train_1283	Finished	100%	0.9638671875	7 days, 7:07:31.252888
train_1284	In Progress...	53.9%	0.29296875	10 days, 9:47:54.461896
train_1285	Finished	100%	0.29296875	10 days, 4:00:35.381878
train_1286	In Progress...	52.2%	0.990234375	10 days, 9:47:54.461972
train_1287	In Progress...	97.5%	0.9892578125	10 days, 9:47:54.462039
train_1288	In Progress...	45.3%	0.9990234375	10 days, 9:47:54.462125
train_1289	In Progress...	92.0%	0.9990234375	10 days, 9:47:54.462193
train_1290	In Progress...	44.2%	0.9970703125	10 days, 9:47:54.462262
train_1291	In Progress...	93.9%	1	10 days, 9:47:54.462329
train_1292	In Progress...	42.8%	0.6015625	10 days, 9:47:54.462399
train_1293	In Progress...	87.6%	0.5576171875	10 days, 9:47:54.462472
train_1294	In Progress...	45.9%	0.5830078125	10 days, 9:47:54.462546
train_1295	In Progress...	85.1%	0.44140625	10 days, 9:47:54.462614
train_1296	In Progress...	3.4%	0.6494140625	10 days, 9:47:54.462682

Tag	Status	Progress	BestValAcc	Elapsed Time
train_1164	In Progress...	85.4%	0.5244140625	6 days, 7:18:25.282390
train_1165	Finished	100%	0.521484375	3 days, 13:59:52.085528
train_1166	In Progress...	84.6%	0.5400390625	6 days, 7:18:25.282524
train_1167	Finished	100%	0.5400390625	3 days, 14:37:31.981630
train_1168	In Progress...	89.0%	0.5849609375	6 days, 7:18:25.282646
train_1169	Finished	100%	0.59375	3 days, 13:58:42.926519
train_1170	In Progress...	88.7%	0.5810546875	6 days, 7:18:25.282743
train_1171	Finished	100%	0.595703125	3 days, 14:12:07.584201
train_1172	In Progress...	88.1%	0.8828125	6 days, 7:18:25.282843
train_1173	Finished	100%	0.8720703125	3 days, 14:32:01.527344
train_1174	In Progress...	85.8%	0.87109375	6 days, 7:18:25.282945
train_1175	Finished	100%	0.873046875	3 days, 13:29:57.625520
train_1176	In Progress...	88.0%	0.8916015625	6 days, 7:18:25.283052
train_1177	Finished	100%	0.8798828125	3 days, 14:46:35.780857
train_1178	In Progress...	84.9%	0.861328125	6 days, 7:18:25.283169
train_1179	Finished	100%	0.8681640625	3 days, 14:13:38.273930
train_1180	In Progress...	35.2%	0.9058203125	6 days, 7:18:25.283287
train_1181	In Progress...	75.6%	0.97265625	6 days, 7:18:25.283390
train_1182	In Progress...	34.9%	0.97265625	6 days, 7:18:25.283484
train_1183	In Progress...	75.3%	0.97265625	6 days, 7:18:25.283580
train_1184	In Progress...	34.6%	0.9794921875	6 days, 7:18:25.283676
train_1185	In Progress...	75.0%	0.982421875	6 days, 7:18:25.283772
train_1186	In Progress...	34.4%	0.9716796875	6 days, 7:18:25.283866
train_1187	In Progress...	74.3%	0.98046875	6 days, 7:18:25.283959

- AWS holds limits on the number of CPUs than can be instantiated.
- For default users it is limited to 128 vCPUs (16 instances of g4dn.2xlarge)
- For new users it is set to 32 vCPUs (4 instances of g4dn.2xlarge)
- Upon request, we increased to limit to 512 vCPUs (64 instances of g4dn.2xlarge)

- Other findings:
 - g4dn.2xlarge has a complementary SSD storage of 225 GB.
 - This storage is cleared whenever the instance is stopped.
- Due to low `/` size, we install everything on the SSD storage. We need to make sure that the instance is never stopped.

- The datasets will be stored on a common storage called 'EBS'.
- The EBS type 'io2' allows multi attach to various instances.
- However, it does not synchronize write. Thus we will use this memory for read access.
- The results will be continuously rsynced between the host and workers.

Satori

- The key difficulty is using 'power' architecture.
- We are successfully able to install ray using IBM PowerAI's conda package.
- The order of python package installation is important to resolve dependency conflicts.
- Regarding pytorch, no conda package for 'power' architecture
- PowerAI provides docker images, but currently hanging. Further tries in progress.



- We started experiment 2 on OpenMind last week.
- But faced too many preemptions.
- Only 8 experiments were completed till now.