Submit the following task for lab report for Part B:

Step 26

```
==> rplpl-slurm.queue1-dy-m5a-xlarge-1.1.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=12, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
==> rs1a-slurm.queue1-dy-m5a-4xlarge-1.3.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=20, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
==> rs2a-slurm.queue1-dy-m5a-4xlarge-2.4.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=20, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
==> rs3a-slurm.queue1-dy-m5a-4xlarge-3.5.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=20, tm_hour=12, tm_min=20, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
 => rs4a-slurm.queue1-dy-m5a-4xlarge-1.6.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=13, tm_min=10, tm_sec=32, tm_wday=5, tm_yday=301, tm_isdst=0)
==> rse-slurm.aueue1-dv-m5a-xlarae-1.2.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=12, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
==> slurm-451.out <==
End Times
 ≔> rplpl-slurm.queue1-dy-m5a-xlarge-1.1.out <==
Object loaded from file unity_71bf.hkl
Object loaded from file eyelink_24d5.hkl
Found path: /data/RCP/VirtualMaze.x86_64
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=37, tm_sec=54, tm_wday=5, tm_yday=301, tm_isdst=0)
1508.0303106307983
=> rs1a-slurm.queue1-dy-m5a-4xlarge-1.3.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=13, tm_min=5, tm_sec=23, tm_wday=5, tm_yday=301, tm_isdst=0)
2676.4482605457306
   "MessageId": "3ef88dfc-f2a0-5b20-bc28-d04bfbf6bb56"
==> rs2a-slurm.queue1-dy-m5a-4xlarge-2.4.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=13, tm_min=6, tm_sec=24, tm_wday=5, tm_yday=301, tm_isdst=0)
2737.4788780212402
    "MessageId": "8c71027b-1359-5c59-bb35-5fcc1aca2942"
=> rs3a-slurm.queue1-dy-m5a-4xlarge-3.5.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=13, tm_min=8, tm_sec=22, tm_wday=5, tm_yday=301, tm_isdst=0)
2856.003537416458
   "MessageId": "6631a09b-d828-52c9-95a2-fd2cd2210287"
==> rs4a-slurm.queue1-dy-m5a-4xlarge-1.6.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=13, tm_min=37, tm_sec=1, tm_wday=5, tm_yday=301, tm_isdst=0)
1589.3496520519257
    "MessageId": "ebd94b39-dc45-51be-be06-168ecc8b6606"
 >> rse-slurm.queue1-dy-m5a-xlarge-1.2.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=18, tm_sec=29, tm_wday=5, tm_yday=301, tm_isdst=0)
342.5053517818451
    "MessageId": "190554f3-ceb5-51a8-a8c6-094530e299d1"
```

First 5 timestamps:

- 1. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=35, tm_sec=22, tm_wday=5, tm_yday=301, tm_isdst=0)
- 2. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=35, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
- 3. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=35, tm_sec=57, tm_wday=5, tm_yday=301, tm_isdst=0)
- 4. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=37, tm_sec=19, tm_wday=5, tm_yday=301, tm_isdst=0)
- 5. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=39, tm_sec=42, tm_wday=5, tm_yday=301, tm_isdst=0)

Last 5 timestamps:

- 1. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=16, tm_min=58, tm_sec=5, tm_wday=5, tm_yday=301, tm_isdst=0)
- 2. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=16, tm_min=58, tm_sec=47, tm_wday=5, tm_yday=301, tm_isdst=0)
- 3. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=17, tm_min=4, tm_sec=2, tm_wday=5, tm_yday=301, tm_isdst=0)
- 4. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=17, tm_min=15, tm_sec=50, tm_wday=5, tm_yday=301, tm_isdst=0)
- 5. time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=17, tm_min=21, tm_sec=32, tm_wday=5, tm_yday=301, tm_isdst=0)

Calculating total time taken:

First start time (from rplpl-slurm):

time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=12, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)

Latest end time (from rpllfp or rplhighpass-sort):

time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=17, tm_min=21, tm_sec=32, tm_wday=5, tm_yday=301, tm_isdst=0)

Total time taken:

Total Time Taken = (2023-10-28 17:21:32) - (2023-10-28 12:12:46)

Hours: 17 - 12 = 5 hours Minutes: 21 - 12 = 9 minutes

Seconds: 32 - 46 = -14 seconds (Note: Negative seconds indicate borrowing from the minutes)

So, the total time taken is **5 hours**, **8 minutes**, **and 46 seconds**.

Step 29 (for personal reference)

- Find missing firings.mda: find . -name "firings.mda" | cut -d "/" -f 3 > firings_channels.txt
- To extract channels from chs.txt: sed 's/.*\///' chs.txt > extracted_channels.txt
- To compare firings.txt and extract_channels.txt: comm -23 <(sort extracted_channels.txt) <(cut -d '/' -f 2 < firings_channels.txt | sort) > missing channel.txt
- Extract the missing channel's directories from chs and put it into missing-sort-chs.txt: grep -F -f missing_channel.txt chs.txt > missing-sort-chs.txt

Step 30

cwd=`pwd`; for i in `cat missing-sort-chs.txt`; do echo \$i; cd \$i; sbatch
/data/src/PyHipp/rplhighpass-sort-slurm.sh; cd \$cwd; done

2018110

```
[(env1) [ec2-user@ip-10-8-11-26 20181105]$ bash /data/src/PyHipp/checkfiles2.sh

Number of hkl files
665

Number of mda files
110

Start Times
==> rp!pl-slurm.queue1-dy-m5a-xlarge-1.1.out <==
time.struct_time(tm_year=2023, tm_mon=10, tm_mday=28, tm_hour=12, tm_min=12, tm_sec=46, tm_wday=5, tm_yday=301, tm_isdst=0)
```

Step 35

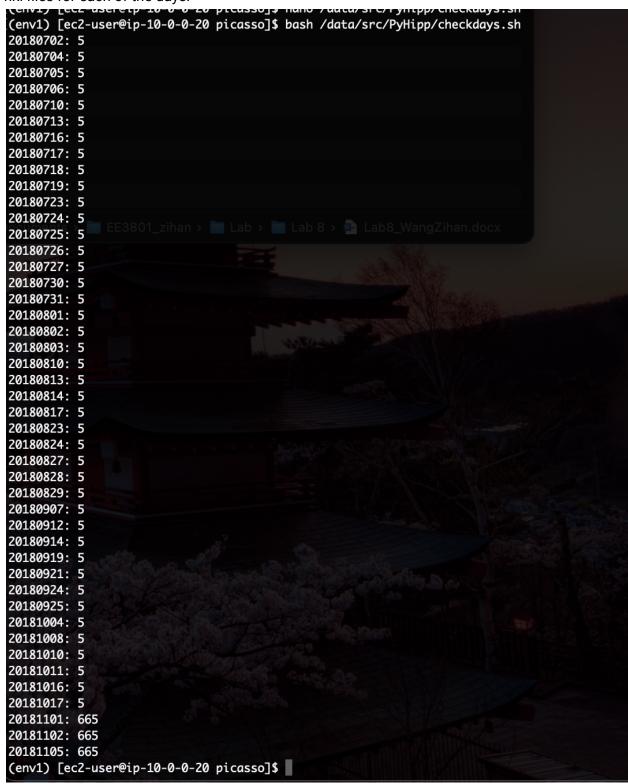
20181101

```
[(env1) [ec2-user@ip-10-0-0-20 20181101]$ bash /data/src/PyHipp/checkfiles2.sh
Number of hkl files
665
Number of mda files
110
Start Times
```

20181102

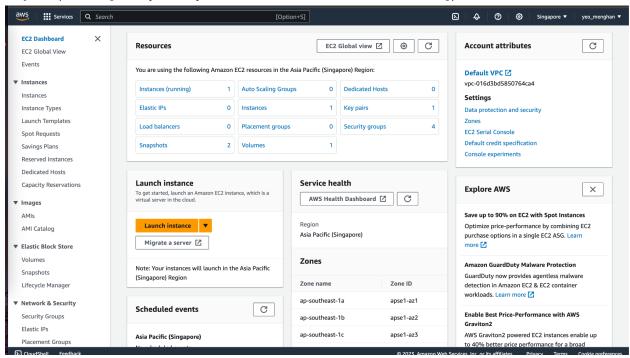
```
}
[(env1) [ec2-user@ip-10-0-0-20 20181102]$ bash /data/src/PyHipp/checkfiles2.sh
Number of hkl files
665
Number of mda files
110
Start Times
```

hkl files for each of the days:

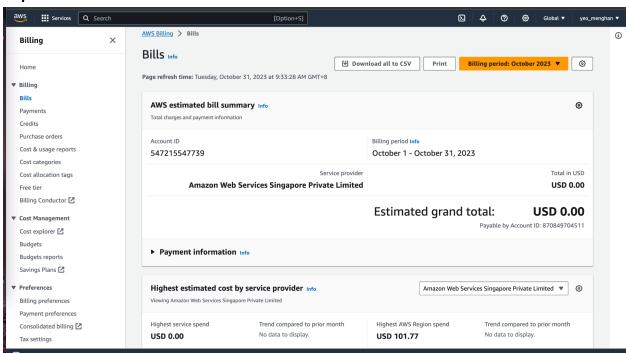


Repeat these steps from Lab 5:

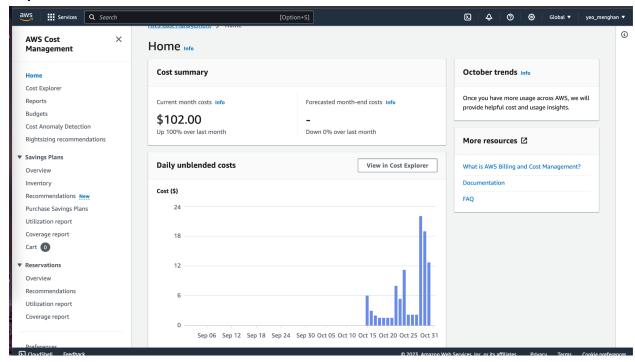
Step 34 (showing that you only have 1 instance and 1 volume running)



Step 36



Step 37



Step 75

