Code 1

10 June 2024   14:22

Pwd

```
(intern1) [prghosh@nef-devel ~]$ pwd
/home/prghosh
```

```
PS C:\Users\praba> wsl
prabal@Prabal:/mnt/c/Users/praba$  rsync -av -e ssh C:\Users\praba\Documents\GitHub
\intersnhip_iria\prabal_cripts_from_code\attributions.py prghosh@nef-
frontal.inria.fr:/home/prghosh/zennit-crp/tutorials
The source and destination cannot both be remote.
rsync error: syntax or usage error (code 1) at main.c(1428) [Receiver=3.2.7]
prabal@Prabal:/mnt/c/Users/praba$ rsync -av -e ssh C:\Users\praba\Documents\GitHub\internship_iria
\prabal_cripts_from_code\attributions.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit-
crp/tutorials
The source and destination cannot both be remote.
rsync error: syntax or usage error (code 1) at main.c(1428) [Receiver=3.2.7]
prabal@Prabal:/mnt/c/Users/praba$ rsync -av -e ssh "C:\Users\praba\Documents\GitHub
\intersnhip_iria\prabal_cripts_from_code\attributions.py" prghosh@nef-
frontal.inria.fr:/home/prghosh/zennit-crp/tutorials
The source and destination cannot both be remote.
rsync error: syntax or usage error (code 1) at main.c(1428) [Receiver=3.2.7]
prabal@Prabal:/mnt/c/Users/praba$ cd "C:\Users\praba\Documents\GitHub\intersnhip_iria
\prabal_cripts_from_code\attributions.py"
-bash: cd: C:\Users\praba\Documents\GitHub\intersnhip_iria\prabal_cripts_from_code\attributions.py:
No such file or directory
prabal@Prabal:/mnt/c/Users/praba$ cd C:\Users\praba\Documents\GitHub\intersnhip_iria
\prabal_cripts_from_code\attributions.py
-bash: cd: C:UseraprabaDocumentsGitHubintersnhip_iriaprabal_cripts_from_codeattributions.py: No
such file or directory
prabal@Prabal:/mnt/c/Users/praba$ cd C:\Users\praba\Documents\GitHub\intersnhip_iria
\prabal_cripts_from_code
-bash: cd: C:UseraprabaDocumentsGitHubintersnhip_iriaprabal_cripts_from_code: No such file or
directory
prabal@Prabal:/mnt/c/Users/praba$ cd
C:/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
-bash: cd: C:/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code: No such file or
directory
prabal@Prabal:/mnt/c/Users/praba$ cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
rsync -av -e ssh attributions.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit-crp/tutorials
sending incremental file list
attributions.py

sent 22,026 bytes  received 34 bytes  8,824.00 bytes/sec
total size is 21,914  speedup is 0.99
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
rsync -av -e ssh .\Documents\GitHub\intersnhip_iria\prabal_cripts_from_code\attributions.py
prghosh@nef-frontal.inria.fr:/home/prghosh/zennit-crp/tutorials
sending incremental file list
rsync: [sender] link_stat
"/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code/.DocumentsGitHubi
ntersnhip_iriaprabal_cripts_from_codeattributions.py" failed: No such file or directory (2)

sent 18 bytes  received 11 bytes  58.00 bytes/sec
total size is 0  speedup is 0.00
rsync error: some files/attrs were not transferred (see previous errors) (code 23) at main.c(1338)
[sender=3.2.7]
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ cd
prabal@Prabal:~$ pwd
/home/prabal
prabal@Prabal:~$ rsync -av -e ssh .\Documents\GitHub\intersnhip_iria\prabal_cripts_from_code
\attributions.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit-crp/tutorials
sending incremental file list
rsync: [sender] link_stat
"/home/prabal/.DocumentsGitHubintersnhip_iriaprabal_cripts_from_codeattributions.py" failed: No
such file or directory (2)

sent 18 bytes  received 11 bytes  19.33 bytes/sec
total size is 0  speedup is 0.00
rsync error: some files/attrs were not transferred (see previous errors) (code 23) at main.c(1338)
[sender=3.2.7]
prabal@Prabal:~$ rsync -av -e
ssh ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code/attributions.py prghosh@nef
frontal.inria.fr:/home/prghosh/zenn
it-crp/tutorials
sending incremental file list
rsync: [sender] change_dir
"/home/prabal/./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code" failed: No such file or
directory (2)

sent 26 bytes  received 19 bytes  90.00 bytes/sec
total size is 0  speedup is 0.00
rsync error: some files/attrs were not transferred (see previous errors) (code 23) at main.c(1338)
[sender=3.2.7]
prabal@Prabal:~$ rsync -av -e ssh
Documents/GitHub/intersnhip_iria/prabal_cripts_from_code/attributions.py prghosh@nef
frontal.inria.fr:/home/prghosh/zennit
-crp/tutorials
sending incremental file list
rsync: [sender] change_dir
"/home/prabal/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code" failed: No such file or
directory (2)

sent 26 bytes  received 19 bytes  30.00 bytes/sec
total size is 0  speedup is 0.00
rsync error: some files/attrs were not transferred (see previous errors) (code 23) at main.c(1338)
[sender=3.2.7]
prabal@Prabal:~$
prabal@Prabal:~$ cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
-bash: cd: ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code: No such file or directory
prabal@Prabal:~$ cd ./documents
-bash: cd: ./documents: No such file or directory
prabal@Prabal:~$ exit
logout
PS C:\Users\praba> wsl
prabal@Prabal:/mnt/c/Users/praba$ ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
rsync -av -e ssh feature_visualization.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit-
crp/tutorials
sending incremental file list
feature_visualization.py

sent 13,341 bytes  received 34 bytes  3,821.43 bytes/sec
total size is 13,220  speedup is 0.99
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ ls
attributions.py  feature_visualization.py
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
```

```
prabal@Prabal:~$ ssh prghosh@nef-devel.inria.fr
The authenticity of host 'nef-devel.inria.fr (193.51.209.221)' can't be established.
ED25519 key fingerprint is SHA256:m6GJKvXRkzowgSCAd0uS91pB1W7uFC3iyoIZoY4YSZU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'nef-devel.inria.fr' (ED25519) to the list of known hosts.
Last login: Mon Jun 10 13:22:39 2024 from nef-frontal.inria.fr
-----------------------------------------------------------------
   Cluster Nef, Inria Sophia Antipolis-Mediterranee
-----------------------------------------------------------------
           nef-devel-new.inria.fr
     Linux 3.10.0-693.17.1.el7.x86_64 centos 7.4.1708
-----------------------------------------------------------------
  Documentation:  https://wiki.inria.fr/ClustersSophia/Clusters_Home
-----------------------------------------------------------------
  !! Please cite the platform in your scientific publications !! :
  https://wiki.inria.fr/ClustersSophia/Usage_policy#Acknowledgment
-----------------------------------------------------------------
(base) [prghosh@nef-devel ~]$ ls
zennit-crp
(base) [prghosh@nef-devel ~]$ cd zennit-crp/
(base) [prghosh@nef-devel zennit-crp]$ ls
LICENSE  README.md  build  crp  images  setup.py  tests  tutorials  zennit_crp.egg-info
(base) [prghosh@nef-devel zennit-crp]$ cd t
tests/    tutorials/
(base) [prghosh@nef-devel zennit-crp]$ cd tutorials/
(base) [prghosh@nef-devel tutorials]$ ls
VGG16_ImageNet  attributions.ipynb  attributions.py  feature_visualization.ipynb
feature_visualization.py  images
(base) [prghosh@nef-devel tutorials]$
```

```
export LANG=en_US.UTF-8
export LC_ALL=en_US.UTF-8
```

```
export LANG=en_US.UTF-8
export LANGUAGE=en_US.UTF-8
export LC_ALL=en_US.UTF-8
```

```
oarstat -u prghosh
oarpeek <job_id>
cat /home/prghosh/logs/log.<job_id>.out
cat /home/prghosh/logs/log.<job_id>.err
```

```
cat /home/prghosh/logs/log.13448484.out
cat /home/prghosh/logs/log.13448484.err
```

TO UPLOAD FILES IN NEF

```
PS C:\Users\praba> wsl
prabal@Prabal:/mnt/c/Users/praba$ cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code

prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
rsync -av -e ssh feature_visualization.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit-
crp/tutorials

sending incremental file list
feature_visualization.py

sent 13,341 bytes  received 34 bytes  3,821.43 bytes/sec
total size is 13,220  speedup is 0.99
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ ls
attributions.py  feature_visualization.py
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
```

TO DOWNLOAD FILES FROMNEF

```
prabal@Prabal:/mnt/c/Users/praba/Desktop/z_img/image_server$ rsync -av -e ssh prghosh@nef-
devel.inria.fr:/home/prghosh/output_image .

receiving incremental file list
output_image/
output_image/heatmap_grid_1.jpg

sent 47 bytes  received 17,307 bytes  11,569.33 bytes/sec
total size is 17,146  speedup is 0.99
```

```
#!/bin/bash
#OAR -p gpu='YES'
#OAR -l /nodes=1/gpunum=1,walltime=01:00:00
#OAR --stdout /home/prghosh/logs/log.%jobid%.out
#OAR --stderr /home/prghosh/logs/log.%jobid%.err
#OAR -name attributions_job

module purge
module load conda/2021.11-python3.9
conda activate ./intern1
module load gcc/9.2.0
cd /home/prghosh/zennit-crp/tutorials
python ./attributions.py

conda deactivate
module purge
```

```
#!/bin/bash
#OAR -p gpu='YES'
#OAR -l /nodes=1/gpunum=1,walltime=01:00:00
#OAR --stdout /home/prghosh/logs/log.%jobid%.out
#OAR --stderr /home/prghosh/logs/log.%jobid%.err
#OAR -name attributions_job

module purge
module load conda/2021.11-python3.9
conda activate ./intern1
module load gcc/9.2.0
cd /home/prghosh/zennit-crp/tutorials
python ./feature_visualization.py

conda deactivate
module purge
```

```
#!/bin/bash
#OAR -p gpu='YES'
#OAR -l /nodes=1/gpunum=1,walltime=01:00:00
#OAR --stdout /home/prghosh/logs/log.%jobid%.out
#OAR --stderr /home/prghosh/logs/log.%jobid%.err
#OAR -name attributions_job

module purge
module load conda/2021.11-python3.9
conda activate ./intern1
module load gcc/9.2.0
cd /home/prghosh/zennit-crp/tutorials
python ./feature_visualization.py

conda deactivate
module purge
```

```
#!/bin/bash
#OAR -p gpu='YES'
#OAR -l /nodes=1/gpunum=1,walltime=01:00:00
#OAR --stdout /home/prghosh/logs/log.%jobid%.out
#OAR --stderr /home/prghosh/logs/log.%jobid%.err
#OAR -name attributions_job

module purge
module load conda/2021.11-python3.9
source activate ./intern1
module load gcc/9.2.0
cd /home/prghosh/zennit-crp/tutorials
python ./check_gpu.py

conda deactivate
module purge
```

```
PowerShell 7.4.2
PS C:\Users\praba> cd .\zennit-crp\
PS C:\Users\praba\zennit-crp> code .
PS C:\Users\praba\zennit-crp> ssh prghosh@nef-devel.inria.fr
Last login: Wed Jun 19 13:25:03 2024 from interne -035a.sophia.inria.fr
-----------------------------------------------------------------
   Cluster Nef, Inria Sophia Antipolis -Mediterranee
-----------------------------------------------------------------
           nef-devel-new.inria.fr
     Linux 3.10.0-693.17.1.el7.x86_64 centos 7.4.1708
-----------------------------------------------------------------
  Documentation:  https://wiki.inria.fr/ClustersSophia/Clusters_Home
-----------------------------------------------------------------
  !! Please cite the platform in your scientific publications !! :
  https://wiki.inria.fr/ClustersSophia/Usage_policy#Acknowledgment
-----------------------------------------------------------------
(base) [prghosh@nef-devel ~]$ wsl
-bash: wsl: command not found
(base) [prghosh@nef-devel ~]$ wsl
-bash: wsl: command not found
(base) [prghosh@nef-devel ~]$ pwd
/home/prghosh
(base) [prghosh@nef-devel ~]$ exit
logout
Connection to nef-devel.inria.fr closed.
PS C:\Users\praba\zennit-crp>
PS C:\Users\praba\zennit-crp>
PS C:\Users\praba\zennit-crp>
PS C:\Users\praba\zennit-crp> wsl
prabal@Prabal:/mnt/c/Users/praba$ ls
LICENSE  README.md  build  crp  images  setup.py  tests  tutorials  zennit_crp.egg -info
prabal@Prabal:/mnt/c/Users/praba/zennit-crp$ cd tutorials
prabal@Prabal:/mnt/c/Users/praba/zennit -crp/tutorials$ ls
ImageNet_data  VGG16_ImageNet  attributions.ipynb  attributions.py  feature_visualization.ipynb
feature_visualization.py  images
prabal@Prabal:/mnt/c/Users/praba/zennit-crp/tutorials$
cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
-bash: cd: ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code: No such file or directory
prabal@Prabal:/mnt/c/Users/praba/zennit-crp/tutorials$ ls
ImageNet_data  VGG16_ImageNet  attributions.ipynb  attributions.py  feature_visualization.ipynb
feature_visualization.py  images
prabal@Prabal:/mnt/c/Users/praba/zennit-crp/tutorials$ cd
prabal@Prabal:~$ cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
-bash: cd: ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code: No such file or directory
prabal@Prabal:~$ /mnt/c/Users/praba$
cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
-bash: /mnt/c/Users/praba$: No such file or directory
prabal@Prabal:~$ exit
logout
PS C:\Users\praba\zennit-crp> cd
PS C:\Users\praba> wsl
prabal@Prabal:/mnt/c/Users/praba$ cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ ls
'Fwd NEF access'   attributions.py  feature_visualization.py
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
rsync -av -e ssh check_gpu.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit -crp/tutorials
sending incremental file list
check_gpu.py

sent 229 bytes  received 34 bytes  175.33 bytes/sec
total size is 120  speedup is 0.46
```

```
prabal@Prabal:~$ ssh prghosh@nef-devel.inria.fr
Last login: Thu Jun 20 11:47:59 2024 from interne035a.sophia.inria.fr
-----------------------------------------------------------------
   Cluster Nef, Inria Sophia Antipolis-Mediterranee
-----------------------------------------------------------------
           nef-devel-new.inria.fr
     Linux 3.10.0-693.17.1.el7.x86_64 centos 7.4.1708
-----------------------------------------------------------------
  Documentation:  https://wiki.inria.fr/ClustersSophia/Clusters_Home
-----------------------------------------------------------------
  !! Please cite the platform in your scientific publications !! :
  https://wiki.inria.fr/ClustersSophia/Usage_policy#Acknowledgment
-----------------------------------------------------------------
(base) [prghosh@nef-devel ~]$ vim feature_visualization_job.sh
(base) [prghosh@nef-devel ~]$ ls
OAR.13448110.stderr  OAR.13448110.stdout  attributions_job.sh  attributions_job.sh.swp  check_gpu.sh
feature_visualization_job.sh  logs  mlp_job.sh  r  w  zennitcrp
(base) [prghosh@nef-devel ~]$ chmod 755 feature_visualization_job.sh
(base) [prghosh@nef-devel ~]$ oarsub -S ./feature_visualization_job.sh
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
[ADMISSION RULE] Modify resource description with type constraints
[ADMISSION RULE] Automatically add constraint to go on nodes permitted for the user.
OAR_JOB_ID=13448750
(base) [prghosh@nef-devel ~]$ oarpeek 13448750
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
-- Info - Your job is in Waiting state ! --
-- Info - Command is : cat /home/prghosh/logs/log.13448750.out
-- Info - Output is :
cat: /home/prghosh/logs/log.13448750.out: No such file or directory
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job id    Name    User    Submission Date    S Queue
---------------------------------------------------------------
13448750   aime  attributio prghosh    2024-06-20 11:55:45 R default
(base) [prghosh@nef-devel ~]$ oarstat -j 13448750 -f
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job_Id: 13448750
   job_array_id = 13448750
```

```
/home/prghosh/fonts/
```

```
prabal@Prabal:/mnt/c/Users/praba$ cd ./Documents/GitHub/intersnhip_iria/prabal_cripts_from_code
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ ls
'Fwd NEF access'  attributions.py  feature_visualization.py
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$
rsync -av -e ssh check_gpu.py prghosh@nef-frontal.inria.fr:/home/prghosh/zennit -crp/tutorials
sending incremental file list
check_gpu.py

sent 229 bytes  received 34 bytes  175.33 bytes/sec
total size is 120  speedup is 0.46
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ ls
'Fwd NEF access'  attributions.py  check_gpu.py  feature_visualization.py  mlp_script.py
prabal@Prabal:/mnt/c/Users/praba/Documents/GitHub/intersnhip_iria/prabal_cripts_from_code$ exit
logout
PS C:\Users\praba>
PS C:\Users\praba>
PS C:\Users\praba>
PS C:\Users\praba> wsl
prabal@Prabal:/mnt/c/Users/praba$ nvidia-smi
Command 'nvidia-smi' not found, but can be installed with:
sudo apt install nvidia-utils-390       # version 390.157-0ubuntu0.22.04.2, or
sudo apt install nvidia-utils-418-server # version 418.226.00-0ubuntu5~0.22.04.1
sudo apt install nvidia-utils-450-server # version 450.248.02-0ubuntu0.22.04.1
sudo apt install nvidia-utils-470        # version 470.223.02-0ubuntu0.22.04.1
sudo apt install nvidia-utils-470-server # version 470.223.02-0ubuntu0.22.04.1
sudo apt install nvidia-utils-525        # version 525.147.05-0ubuntu0.22.04.1
sudo apt install nvidia-utils-525-server # version 525.147.05-0ubuntu0.22.04.1
sudo apt install nvidia-utils-535        # version 535.129.03-0ubuntu0.22.04.1
sudo apt install nvidia-utils-535-server # version 535.129.03-0ubuntu0.22.04.1
sudo apt install nvidia-utils-510        # version 510.60.02-0ubuntu1
sudo apt install nvidia-utils-510-server # version 510.47.03-0ubuntu3
prabal@Prabal:/mnt/c/Users/praba$ ssh prghosh@nef-devel.inria.fr
Last login: Thu Jun 20 10:25:23 2024 from interne-03sa.sophia.inria.fr

---------------------------------------------------------------
    Cluster Nef, Inria Sophia Antipolis -Mediterranee

         nef-devel-new.inria.fr
    Linux 3.10.0-693.17.1.el7.x86_64 centos 7.4.1708
---------------------------------------------------------------
Documentation:  https://wiki.inria.fr/ClustersSophia/Clusters_Home

!! Please cite the platform in your scientific publications !! :
https://wiki.inria.fr/ClustersSophia/Usage_policy#Acknowledgment
---------------------------------------------------------------

(base) [prghosh@nef-devel ~]$ nvidia-smi
NVIDIA-SMI has failed because it couldn't communicate with the NVIDIA driver. Make sure that the
latest NVIDIA driver is installed and running.

(base) [prghosh@nef-devel ~]$ module list
No Modulefiles Currently Loaded.
(base) [prghosh@nef-devel ~]$ exit
logout [prghosh@nef-devel ~]$
Connection to nef-devel.inria.fr closed.
```

```
(base) [prghosh@nef-devel ~]$ oarstat -j 13448750 -f
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job_Id: 13448750
    job_array_id = 13448750
    job_array_index = 1
    name = ame attributions_job
    project = default
    owner = prghosh
    state = Running
    wanted_resources = -l "{type = 'default'}/network_address=1/gpunum=1,walltime=2:0:0"
    types =
    dependencies =
    assigned_resources = 4391+4392+4393+4394+4395+4396+4397+4398+4399+4400
    assigned_hostnames = nefgpu18.inria.fr
    queue = default
    command = ./feature_visualization_job.sh
    launchingDirectory = /home/prghosh
    stdout_file = /home/prghosh/logs/log.13448750.out
    stderr_file = /home/prghosh/logs/log.13448750.err
    jobType = PASSIVE
    properties = ((gpu='YES') AND ( dedicated='NO' OR dedicated='maasai' )) AND drain='NO'
    reservation = None
    walltime = 2:0:0
    submissionTime = 2024-06-20 11:55:45
    startTime = 2024-06-20 11:55:58
    cpuset_name = prghosh_13448750
    initial_request = oarsub -S ./feature_visualization_job.sh; #OAR-p gpu='YES'; #OAR -l /nodes=
1/gpunum=1,walltime=02:00:0; #OAR --stdout /home/prghosh/logs/log.%jobid%.ou; #OAR--stderr
/home/prghosh/logs/log.%jobid%.er; #OAR-name attributions_jo
    message = R=10,W=2:0:0,J=8,N=ame attributions_job (Karma=0.000,quota_ok)
    scheduledStart = 2024-06-20 11:55:58
    resubmit_job_id = 0
    events =
```

```
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job id    Name         User      Submission Date     S Queue
--------- ------------ --------- ------------------- - ---------
13448750  ame attributio prghosh   2024-06-20 11:55:45 R default
(base) [prghosh@nef-devel ~]$ oarpeek 13448750
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
-- Info - Your job is in Running state ! --
-- Info - Command is : cat /home/prghosh/logs/log.13448750.out
-- Info - Output is :
cat: /home/prghosh/logs/log.13448750.out: No such file or directory
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448750.out
cat: /home/prghosh/logs/log.13448750.out: No such file or directory
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448750.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
Using 'weights' as positional parameter(s) is deprecated since 0.13 and may be removed in the future.
Please use keyword parameter(s) instead.
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_BN_Weights.IMAGENET1K_V1`. You can also use `weights=VGG16_BN_Weights.DEFAULT` to get the
most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.94MB/s]
download: 524MB [00:20, 24.2MB/s](base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448750.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448750.err
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download: 2.57MB [00:00, 4.94MB/s]
download: 1.31GB [00:50, 29.3MB/s](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13448750.out
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        LANG = "C.UTF-8"
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Job id    Name         User      Submission Date     S Queue
--------- ------------ --------- ------------------- - ---------
13448750  ame attributio prghosh   2024-06-20 11:55:45 R default
(base) [prghosh@nef-devel ~]$ oarstat -u
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/home/prghosh/fonts/

07/09/1995 time-09.06AM. Place-Medinipur,West Bengal.I am doing MSc data science in
france.foreign settelment ka chance ha ? I am trying to change my university in Italy. france pe job
milega kab ?

07/09/1995 time-09.06AM. Place-Medinipur,West Bengal.rasi-makar, lagan-tula. I am doing MSc
data science in france. france pe job milega keya mughe ? foreign settelment ka chance ha ? mera
time kab ha

Blue Zercon, Emerald, Ferooa , 5 mukhi rudraksha use kar raha hu

The aim is to replace the Expectation-Maximization (EM) algorithms and Gaussian mixture models used
in the explanatory graph construction with the Concept Relevance Propagation (CRP) approach. This
integration seeks to leverage CRP's ability to identify and propagate relevant concepts within a CNN in
an unsupervised manner.

In the explanatory graph each convolutional layer is a layer of the graph. Different objects parts are
constructed by using GMM on the activation peaks by evaluating the gaussians. In this approach the
locations of nodes and the connections between the nodes of a layer with its parent layer is updated
using EM algorithms iteratively which is very tedious and time consuming process.

CRP is also similar kind of approach but in a supervised manner while explanatory graph approach is
unsupervised one. In CRP the nodes are the channels indicating concepts in a layer and connections are
the edges between the nodes of a layer with its parent layer. But in crp we specify the output class and
calculate the relevance for the previous layer channels by masking other channels. So insetd of
specifying that the output class as a DOG or CAT we can specify that the output class as class1 and class2
and we can proceed backward to calculate the ralavance and based on the relevance scores on channels
in a layer we can set a threslod to cluster the channels which are indicating the same concepts in a layer
and generate nodes . As I have verified that channels of a layer indicating the same concepts even if we
choose different labrador dogs images. So my next step will be to set some threshold for relevance and
proceed further to generate the graph.

removed in the future. The current behavior is equivalent to passing `weights=VGG16
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(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/logs.13448750.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
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perl: warning: Please check that your locale settings:
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        LC_ALL = (unset),
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Job id   Name   User   Submission Date   S Queue
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13448750   ame attributio prghosh   2024-06-20 11:55:45 R default
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
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13448750   ame attributio prghosh   2024-06-20 11:55:45 R default
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/logs.13448750.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading imageNet development kit
Start downloading imageNet validation dataset
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448750.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
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13448750   ame attributio prghosh   2024-06-20 11:55:45 R default
(base) [prghosh@nef-devel ~]$
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.94MB/s]
download: 6.74GB [04:59, 22.5MB/s]
  0%| | 2/1563 [00:05<1:07:18, 2.59s/it]Traceback (most recent call last):
  File "/home/prghosh/zennit-crp/tutorials/./feature_visualization.py", line 93, in <module>
    saved_files = fv.run(composite, 0, len(imagenet_data), 32, 100)
  File "/home/prghosh/.local/lib/python3.9/site-packages/crp/visualization.py", line 76, in run
    saved_checkpoints = self.run_distributed(composite, data_start, data_end, batch_size, checkpoint,
on_device)
  File "/home/prghosh/.local/lib/python3.9/site-packages/crp/visualization.py", line 148, in
run_distributed
    self.attribution(data_broadcast, conditions, None, exclude_parallel=False)
  File "/home/prghosh/.local/lib/python3.9/site-packages/crp/attribution.py", line 241, in __call__
    return self._attribute(data, conditions, composite, record_layer, mask_map, start_layer, init_rel,
on_device, False)
  File "/home/prghosh/.local/lib/python3.9/site-packages/crp/attribution.py", line 341, in _attribute
    self.backward(pred, grad_mask, exclude_parallel, cond_l_names, layer_out)
  File "/home/prghosh/.local/lib/python3.9/site-packages/crp/attribution.py", line 79, in backward
    torch.autograd.backward(pred, grad_mask.to(pred), retain_graph=generate)
  File "/home/prghosh/.local/lib/python3.9/site-packages/torch/autograd/__init__.py", line 197, in
backward
    Variable._execution_engine.run_backward(# Calls into the C++ engine to run the backward pass
  File "/home/prghosh/.local/lib/python3.9/site-packages/zennit/core.py", line 193, in wrapper
    return hook_ref().backward(module, grad_input, hook_ref().stored_tensors['grad_output'])
  File "/home/prghosh/.local/lib/python3.9/site-packages/zennit/core.py", line 337, in backward
    gradients = torch.autograd.grad(outputs, inputs, grad_outputs=self.gradient_mapper(grad_output[0],
outputs))
  File "/home/prghosh/.local/lib/python3.9/site-packages/zennit/rules.py", line 85, in <lambda>
    gradient_mapper=(lambda out_grad, outputs: [out_grad / stabilize(sum(outputs))] * 2),
torch.cuda.OutOfMemoryError: CUDA out of memory. Tried to allocate 392.00 MiB (GPU 0; 10.91 GiB
total capacity; 8.05 GiB already allocated; 235.19 MiB free; 10.44 GiB reserved in total by PyTorch) If
reserved memory is >> allocated memory try setting max_split_size_mb to avoid fragmentation. See
documentation for Memory Management and PYTORCH_CUDA_ALLOC_CONF
  0%| | 2/1563 [00:06<1:22:01, 3.15s/it]
loading CUDA OK
(base) [prghosh@nef-devel ~]$ cd zennit-crp/
(base) [prghosh@nef-devel zennit-crp]$ cd tutorials/
(base) [prghosh@nef-devel tutorials]$ lq
-bash: lq: command not found
(base) [prghosh@nef-devel tutorials]$ ls
ImageNet_data   OAR.13448443.stdout attributions.ipynb check_gpu.py feature_visualization.ipynb
images
OAR.13448443.stderr VGG16_ImageNet   attributions.py   data   feature_visualization.py
mlp_script.py
(base) [prghosh@nef-devel tutorials]$ vim feature_visualization.py
(base) [prghosh@nef-devel tutorials]$ vim feature_visualization.py
(base) [prghosh@nef-devel tutorials]$ chmod 755 feature_visualization_job.sh
chmod: cannot access 'feature_visualization_job.sh': No such file or directory
(base) [prghosh@nef-devel tutorials]$ cd
(base) [prghosh@nef-devel ~]$ chmod 755 feature_visualization_job.sh
(base) [prghosh@nef-devel ~]$ oarsub -S ./feature_visualization_job.sh
perl: warning: Setting locale failed.
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perl: warning: Falling back to the standard locale ("C").
[ADMISSION RULE] Modify resource description with type constraints
[ADMISSION RULE] Automatically add constraint to go on nodes permitted for the user.
OAR_JOB_ID=13448782
(base) [prghosh@nef-devel ~]$ oarpeek 13448782
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
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-- Info - Your job is in Running state !--
-- Info - Command is : cat /home/prghosh/logs/log.13448782.out
-- Info - Output is :
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448782.out
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448782.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
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Job id   Name   User   Submission Date   S Queue
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13448782   ame attributio prghosh   2024-06-20 14:16:39 R default
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448782.err
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.70MB/s]
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448782.out
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448782.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
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Layer: features.3
Layer: features.7
Layer: features.10
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Collecting results....
Layer: features.0
Layer: features.3
Layer: features.7
Layer: features.10
Layer: features.14
Layer: features.17
Layer: features.20
Layer: features.24
Layer: features.27
Layer: features.30
Layer: features.34
Layer: features.37
Layer: features.40
(base) |prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448782.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
Using `weights` as positional parameter(s) is deprecated since 0.13 and may be removed in the future.
Please use keyword parameter(s) instead.
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most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.70MB/s]
download: 6.74GB [04:35, 24.5MB/s]
100%|███████████| 3125/3125 [15:21<00:00,  3.39it/s]
100%|███████████| 112/112 [00:00<00:00, 223.80it/s]
100%|███████████| 112/112 [00:00<00:00, 225.07it/s]
100%|███████████| 8000/8000 [00:29<00:00, 274.96it/s]
100%|███████████| 8000/8000 [00:29<00:00, 267.62it/s]
100%|███████████| 64/64 [00:26<00:00,  2.40it/s]
100%|███████████| 64/64 [00:18<00:00,  3.48it/s]
100%|███████████| 128/128 [00:51<00:00,  2.49it/s]
100%|███████████| 128/128 [00:43<00:00,  2.91it/s]
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100%|████████████| 512/512 [03:26<00:00,  2.48it/s]
100%|████████████| 512/512 [03:39<00:00,  2.33it/s]
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100%|████████████| 512/512 [04:59<00:00,  1.71it/s]
100%|████████████| 512/512 [05:48<00:00,  1.47it/s]
100%|████████████| 512/512 [05:27<00:00,  1.56it/s]
loading CUDA OK
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
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  download: 6.74GB [04:35, 24.5MB/s]
100%|████████████| 3125/3125 [15:21<00:00,  3.39it/s]
100%|████████████| 112/112 [00:00<00:00, 223.80it/s]
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100%|████████████| 8000/8000 [00:29<00:00, 274.96it/s]
100%|████████████| 8000/8000 [00:29<00:00, 267.62it/s]
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100%|████████████| 64/64 [00:18<00:00,  3.48it/s]
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loading CUDA OK
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Layer: features.20
Layer: features.24
Layer: features.27
Layer: features.30
Layer: features.34
Layer: features.37
Layer: features.40
(base) [prghosh@nef-devel ~]$ cd zennit-crp/
(base) [prghosh@nef-devel zennit-crp]$ cd tutorials/
(base) [prghosh@nef-devel tutorials]$ ls
ImageNet_data    VGG16_ImageNet    cache          feature_visualization.ipynb  mlp_script.py
OAR.13448443.stderr  attributions.ipynb  check_gpu.py  feature_visualization.py
OAR.13448443.stdout  attributions.py     data          images
(base) [prghosh@nef-devel tutorials]$ vim feature_visualization.py
(base) [prghosh@nef-devel tutorials]$ chmod 755 feature_visualization_job.sh
chmod: cannot access 'feature_visualization_job.sh': No such file or directory
(base) [prghosh@nef-devel tutorials]$ ls
ImageNet_data    VGG16_ImageNet    cache          feature_visualization.ipynb  mlp_script.py
OAR.13448443.stderr  attributions.ipynb  check_gpu.py  feature_visualization.py
OAR.13448443.stdout  attributions.py     data          images
(base) [prghosh@nef-devel tutorials]$ chmod 755 feature_visualization_job.sh
chmod: cannot access 'feature_visualization_job.sh': No such file or directory
(base) [prghosh@nef-devel tutorials]$ cd
(base) [prghosh@nef-devel ~]$ ls
OAR.13448110.stderr  attributions_job.sh    check_gpu.sh              logs      r  zennit-crp
OAR.13448110.stdout  attributions_job.sh.swp  feature_visualization_job.sh  mlp_job.sh  w
(base) [prghosh@nef-devel ~]$ chmod 755 feature_visualization_job.sh
(base) [prghosh@nef-devel ~]$ oarsub -S ./feature_visualization_job.sh
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
[ADMISSION RULE] Modify resource description with type constraints
[ADMISSION RULE] Automatically add constraint to go on nodes permitted for the user.
OAR_JOB_ID=13448881
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
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Job id    Name      User        Submission Date    S Queue
---------- -------- ---------- -------------------- - -------
13448881  ame  attributio prghosh     2024-06-20 15:18:55 R default
(base) [prghosh@nef-devel ~]$ oarpeek 13448881
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
-- Info - Your job is in Running state !--
-- Info - Command is : cat /home/prghosh/logs/log.13448881.out
-- Info - Output is :
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.out
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
  set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
_Utilities/deviceQuery/deviceQuery | grep {[CUDA Capability]} | head-n 1 | grep -o {[[0-9].[0-9]]} ]
} else {
  puts stderr "INFO: running CUDA on a non GPU node. This is useless."
}

Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torch/cuda/__init__.py:88: UserWarning: CUDA
initialization: CUDA unknown error- this may be due to an incorrectly set up environment, e.g. changing
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most up-to-date weights.
  warnings.warn(msg)
  download: 2.57MB [00:00, 4.98MB/s]
  download: 665MB [00:25, 42.5MB/s](base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
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  warnings.warn(msg)
  download: 2.57MB [00:00, 4.98MB/s]
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download: 6.74GB [04:06, 27.3MB/s]
  1%|       | 83/6250 [14:20<18:07:47, 10.58s/it](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
  set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
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  1%|       | 83/6250 [14:20<18:07:47, 10.58s/it](base) [prghosh@nef-devel ~]$
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(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ oarstat -u
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Job id   Name      User        Submission Date    S Queue
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13448881  ame attributio prghosh       2024-06-20 15:18:55 R default
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
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download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
  2%|       | 140/6250 [24:19<17:44:31, 10.45s/it](base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
  3%|       | 164/6250 [28:32<17:41:18, 10.46s/it](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
  set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
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download: 6.74GB [04:06, 27.3MB/s]
  3%|       | 204/6250 [35:34<18:07:09, 10.79s/it](base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
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    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job id   Name      User        Submission Date    S Queue
-------- --------- ----------- ------------------- - ----------
13448881  ame attributio prghosh       2024-06-20 15:18:55 R default
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
Running Analysis....
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
  set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
_Utilities/deviceQuery/deviceQuery | grep {(CUDA Capability)} | head-n 1 | grep -o {[0-9].[0-9]}] }
} else {
  puts stderr "INFO: running CUDA on a non GPU node. This is useless."
}

Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torch/cuda/__init__.py:88: UserWarning: CUDA
initialization: CUDA unknown error - this may be due to an incorrectly set up environment, e.g. changing
env variable CUDA_VISIBLE_DEVICES after program start. Setting the available devices to be zero.
(Triggered internally at ../c10/cuda/CUDAFunctions.cpp:109.)
  return torch._C._cuda_getDeviceCount() > 0
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
Using 'weights' as positional parameter(s) is deprecated since 0.13 and may be removed in the future.
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Arguments other than a weight enum or `None` for 'weights' are deprecated since 0.13 and may be
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_BN_Weights.IMAGENET1K_V1`. You can also use `weights=VGG16_BN_Weights.DEFAULT` to get the
most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
  4%|       | 243/6250 [42:22<17:35:49, 10.55s/it](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
  set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
```

```
 5%|█         | 327/6250 [57:09<17:11:05, 10.44s/it](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
   set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
_Utilities/deviceQuery/deviceQuery | grep {{CUDA Capability}} | head -n 1 | grep -o {[0-9].[0-9]}] }
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Not a conda environment: /home/prghosh/intern1
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most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
 6%|█         | 361/6250 [1:03:33<20:56:30, 12.80s/it](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
   set test_compute_capability [eval exec /misc/opt/cuda/9.2/samples/1
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
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Job id    Name      User      Submission Date    S Queue
--------- --------- --------- ------------------- - ---------
13448881  ame attributio prghosh     2024-06-20 15:18:55 R default
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
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13448881  ame attributio prghosh     2024-06-20 15:18:55 R default
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
 6%|█         | 388/6250 [1:10:16<26:28:49, 16.26s/it](base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
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/home/prghosh/.local/lib/python3.9/site-packages/torch/cuda/__init__.py:88: UserWarning: CUDA
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download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.err
cuda/9.2(13):ERROR:102: Tcl command execution failed: if {$name_match == 0} {
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most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
 7%|█         | 459/6250 [1:29:44<26:25:25, 16.43s/it](base) [prghosh@nef-devel ~]$ cat /hom(base)
[prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
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Job id    Name      User      Submission Date    S Queue
--------- --------- --------- ------------------- - ---------
13448881  ame attributio prghosh     2024-06-20 15:18:55 R default
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
Running Analysis....
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.out
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/home/prghosh/.local/lib/python3.9/site-packages/torch/cuda/__init__.py:88: UserWarning: CUDA
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  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
 9%|█         | 537/6250 [1:50:54<25:30:21, 16.07s/it](base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
        LANGUAGE = (unset),
        LC_ALL = (unset),
        LANG = "C.UTF-8"
    are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job id    Name      User      Submission Date    S Queue
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```

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13448881  ame attributio prghosh      202406-20 15:18:55 R default
(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
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most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.98MB/s]
download: 6.74GB [04:06, 27.3MB/s]
  9% |█          | 559/6250 [1:56:51<25:36:41, 16.20s/it]## OAR [202406-20 17:20:25] Job 13448881
KILLED ##
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13448881.out
By downloading you aggree to the terms of access listed onhttps://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
Running Analysis...
(base) [prghosh@nef-devel ~]$ vim feature_visualization.py
(base) [prghosh@nef-devel ~]$ ls
OAR.13448110.stderr  attributions_job.sh   feature_visualization_job.sh  r
OAR.13448110.stdout  check_gpu.sh          logs                          w
attributions_job.sh  feature_visualization.py  mlp_job.sh                zennitcrp
(base) [prghosh@nef-devel ~]$ vim feature_visualization.py
(base) [prghosh@nef-devel ~]$ rm feature_visualization.py
(base) [prghosh@nef-devel ~]$ vim feature_visualization_job.sh
(base) [prghosh@nef-devel ~]$ cd zennit-crp/tutorials/
(base) [prghosh@nef-devel tutorials]$ ls
ImageNet_data     attributions.ipynb data              mlp_script.py
OAR.13448443.stderr  attributions.py    feature_visualization.ipynb
OAR.13448443.stdout  cache              feature_visualization.py
VGG16_ImageNet    check_gpu.py       images
(base) [prghosh@nef-devel tutorials]$ vim feature_visualization.
(base) [prghosh@nef-devel tutorials]$ ls
ImageNet_data     attributions.ipynb data              images
OAR.13448443.stderr  attributions.py    feature_visualization.     mlp_script.py
OAR.13448443.stdout  cache              feature_visualization.ipynb
VGG16_ImageNet    check_gpu.py       feature_visualization.py
(base) [prghosh@nef-devel tutorials]$ rm feature_visualization.
(base) [prghosh@nef-devel tutorials]$ ls
ImageNet_data     attributions.ipynb data              mlp_script.py
OAR.13448443.stderr  attributions.py    feature_visualization.ipynb
OAR.13448443.stdout  cache              feature_visualization.py
VGG16_ImageNet    check_gpu.py       images
(base) [prghosh@nef-devel tutorials]$ vim feature_visualization.py
(base) [prghosh@nef-devel tutorials]$ cd
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
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(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ chmod 755 feature_visualization_job.sh
(base) [prghosh@nef-devel ~]$ oarsub -S ./feature_visualization_job.sh
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
     LANGUAGE = (unset),
     LC_ALL = (unset),
     LANG = "C.UTF-8"
   are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
[ADMISSION RULE] Modify resource description with type constraints
[ADMISSION RULE] Automatically add constraint to go on nodes permitted for the user.
OAR_JOB_ID=13449077
(base) [prghosh@nef-devel ~]$ oarpeek 13449077
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
     LANGUAGE = (unset),
     LC_ALL = (unset),
     LANG = "C.UTF-8"
   are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
-- Info - Your job is in Waiting state !--
-- Info - Command is : cat /home/prghosh/logs/log.13449077.out
-- Info - Output is :
cat: /home/prghosh/logs/log.13449077.out: No such file or directory
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13449077.out
cat: /home/prghosh/logs/log.13449077.out: No such file or directory
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13449077.err
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(base) [prghosh@nef-devel ~]$
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Job id    Name      User       Submission Date    S Queue
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13449077  ame attributio prghosh      202406-20 17:37:23 W default
(base) [prghosh@nef-devel ~]$ oarstat -j 13449077 -f
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
     LANGUAGE = (unset),
     LC_ALL = (unset),
     LANG = "C.UTF-8"
   are supported and installed on your system.
perl: warning: Falling back to the standard locale ("C").
Job_Id: 13449077
    job_array_id = 13449077
    job_array_index = 1
    name = ame attributions_job
    project = default
    owner = prghosh
    state = Waiting
    wanted_resources = -l "{type = 'default'}/network_address=2/gpunum=2,walltime=24:0:0"
    types =
    dependencies =
    assigned_resources =
    assigned_hostnames =
    queue = default
    command = ./feature_visualization_job.sh
    launchingDirectory = /home/prghosh
    stdout_file = /home/prghosh/logs/log.13449077.out
    stderr_file = /home/prghosh/logs/log.13449077.err
    jobType = PASSIVE
    properties = ((gpu='YES') AND ( dedicated='NO' OR dedicated='maasai' )) AND drain='NO'
    reservation = None
    walltime = 24:0:0
    submissionTime = 2024-06-20 17:37:23
    cpuset_name = prghosh_13449077
    initial_request = oarsub -S ./feature_visualization_job.sh; #OAR-p gpu='YES'; #OAR -l /nodes=
2/gpunum=2,walltime=24:00:0; #OAR--stdout /home/prghosh/logs/log.%jobid%.ou; #OAR--stderr
/home/prghosh/logs/log.%jobid%.err; #OAR-name attributions_jo
    message = R=144,W=24:0:0,J=8,N=ame attributions_job (karma=0.000,quota_ok)
    scheduledStart = 2024-06-20 17:37:35
    resubmit_job_id = 0
    events =

(base) [prghosh@nef-devel ~]$ oarstat -u
perl: warning: Setting locale failed.
perl: warning: Please check that your locale settings:
     LANGUAGE = (unset),
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     LANG = "C.UTF-8"
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13449077  ame attributio prghosh      202406-20 17:37:23 R default
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13449077.out
By downloading you aggree to the terms of access listed onhttps://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
Running Analysis...
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13449077.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
Using 'weights' as positional parameter(s) is deprecated since 0.13 and may be removed in the future.
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Please use keyword parameter(s) instead.
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/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:223: UserWarning:
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most up-to-date weights.
  warnings.warn(msg)
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 23%|██ | 706/3125 [04:28<24:24, 1.65it/s](base) [prghosh@nefdevel ~]$ cat
/home/prghosh/logs/log.13449077.out
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Layer: features.10
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Layer: features.20
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Layer: features.27
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perl: warning: Setting locale failed.
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Layer: features.30
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/home/prghosh/logs/log.13449077.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
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Layer: features.30
Layer: features.34
Layer: features.37
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13449077.err

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loading CUDA OK
Not a conda environment: /home/prghosh/intern1
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/home/prghosh/logs/log.13449077.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
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Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
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By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading ImageNet development kit
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Running Analysis....
Collecting results....
Layer: features.0
Layer: features.3
Layer: features.7
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100%|████████| 64/64 [00:35<00:00, 1.78it/s]
100%|████████| 128/128 [00:58<00:00, 2.18it/s]
100%|████████| 128/128 [00:46<00:00, 2.72it/s]
100%|████████| 256/256 [01:41<00:00, 2.51it/s]
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 72%|██████  | 371/512 [08:03<01:00, 2.32it/s](base) [prghosh@nef-devel ~]$ cat
/home/prghosh/logs/log.13449077.err
loading CUDA OK
Not a conda environment: /home/prghosh/intern1
/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:135: UserWarning:
Using 'weights' as positional parameter(s) is deprecated since 0.13 and may be removed in the future.
Please use keyword parameter(s) instead.
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/home/prghosh/.local/lib/python3.9/site-packages/torchvision/models/_utils.py:223: UserWarning:
Arguments other than a weight enum or `None` for 'weights' are deprecated since 0.13 and may be
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most up-to-date weights.
  warnings.warn(msg)
download: 2.57MB [00:00, 4.94MB/s]
download: 6.74GB [03:47, 29.6MB/s]
100%|████████| 3125/3125 [19:41<00:00, 2.64it/s]
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 80%|███████ | 410/512 [09:16<01:15, 1.36it/s](base) [prghosh@nefdevel ~]$
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loading CUDA OK
(base) [prghosh@nef-devel ~]$ cat /home/prghosh/logs/log.13449077.out
By downloading you aggree to the terms of access listed on https://image-net.org/download.php
Start downloading ImageNet development kit
Start downloading ImageNet validation dataset
Running Analysis....
Collecting results....
Layer: features.0
Layer: features.3
Layer: features.7
Layer: features.10
Layer: features.14
Layer: features.17
Layer: features.20
Layer: features.24
Layer: features.27
Layer: features.30
Layer: features.34
Layer: features.37
Layer: features.40
(base) [prghosh@nef-devel ~]$ ls
OAR.13448110.stderr  attributions_job.sh.swp      logs       w
OAR.13448110.stdout  check_job.sh              mlp_job.sh  zennitcrp
attributions_job.sh  feature_visualization_job.sh  r
(base) [prghosh@nef-devel ~]$ cd logs/
(base) [prghosh@nef-devel logs]$ ls
log.13444315.err  log.13445796.err  log.13446782.err  log.13448166.err  log.13448458.out
log.13444315.out  log.13445796.out  log.13446782.out  log.13448166.out  log.13448458.out
log.13444478.err  log.13445798.err  log.13447407.err  log.13448239.err  log.13448471.out
log.13444478.out  log.13445798.out  log.13447407.out  log.13448239.out  log.13448471.out
log.13444484.err  log.13446577.err  log.13447411.err  log.13448375.err  log.13448746.out
log.13444484.out  log.13446577.out  log.13447411.out  log.13448375.out  log.13448746.out
log.13444486.err  log.13446579.err  log.13447414.err  log.13448378.err  log.13448750.out
log.13444486.out  log.13446579.out  log.13447414.out  log.13448378.out  log.13448750.out
log.13444487.err  log.13446689.err  log.13447415.err  log.13448379.err  log.13448752.err
log.13444487.out  log.13446689.out  log.13447415.out  log.13448379.out  log.13448752.out
log.13444506.err  log.13446704.err  log.13447804.err  log.13448442.err  log.13448782.err
log.13444506.out  log.13446704.out  log.13447804.out  log.13448442.out  log.13448782.out
log.13444507.err  log.13446705.err  log.13448067.err  log.13448454.err  log.13448881.err
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log.13445789.err  log.13446772.err  log.13448146.err  log.13448457.err  log.13449077.err
log.13445789.out  log.13446772.out  log.13448146.out  log.13448457.out  log.13449077.out
(base) [prghosh@nef-devel logs]$ vim log.13449077.out
(base) [prghosh@nef-devel logs]$ vim log.13449077.err
(base) [prghosh@nef-devel logs]$
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(base) |prghosh@nef-devel logs]$
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(base) |prghosh@nef-devel logs]$
(base) |prghosh@nef-devel logs]$
(base) |prghosh@nef-devel logs]$
(base) |prghosh@nef-devel logs]$ exit
logout
Connection to nef-devel.inria.fr closed.
prabal@Prabal:~$
prabal@Prabal:~$
```