For the CNN1:

| CNN1 | para: sz/lr | vloss_step | vloss |
|------|-------------|------------|-------|
| 1_1 | 512/10 | 58 | 0.2253 |
| 1_2 | 512/15 | 55 | 0.2278 |
| 1_3 | 1024/10 | 49 | 0.2289 |
| 1_4 | 1024/15 | 48 | 0.2234 |

```
DesNet(
  (features): Sequential(
    (0): Conv2d(1, 32, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=
False)
    (1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=False, track_running_s
tats=True)
    (2): ReLU()
    (3): Conv2d(32, 128, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bia
s=False)
    (4): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_running_
stats=True)
    (5): ReLU()
    (6): Dropout(p=0.3, inplace=False)
    (7): Conv2d(128, 128, kernel_size=(8, 8), stride=(1, 1), bias=False)
    (8): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_running_
stats=True)
  )
)
```
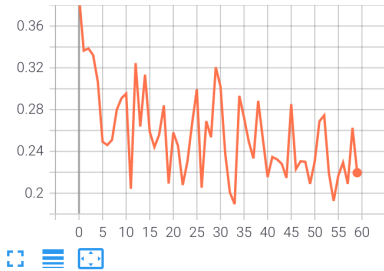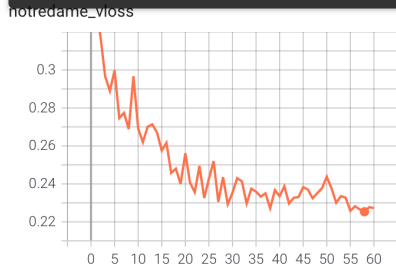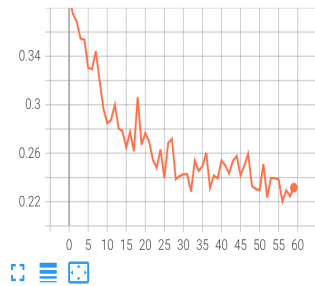
loss

loss

loss

loss





| Name | Smoothed | Value | Step | Time | Relative |
|------|----------|-------|------|------|----------|
| notredame_vloss | 0.2253 | 0.2253 | 58 | Thu Apr 22, 21:34:54 | 1h 34m 48s |

| Name | Smoothed | Value | Step | Time | Relative |
|------|----------|-------|------|------|----------|
| notredame_vloss | 0.2278 | 0.2278 | 55 | Thu Apr 22, 21:27:35 | 1h 26m 38s |

notredame_vloss

notredame_vloss

loss

loss

loss

loss
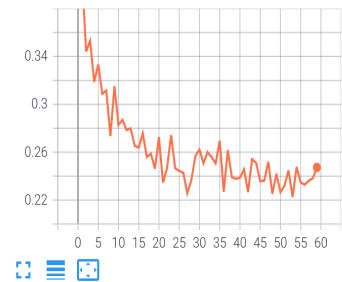




| Name | Smoothed | Value | Step | Time | Relative |
|------|----------|-------|------|------|----------|
| notredame_vloss | 0.2289 | 0.2289 | 49 | Mon Apr 19, 17:53:30 | 1h 28m 14s |

| Name | Smoothed | Value | Step | Time | Relative |
|------|----------|-------|------|------|----------|
| notredame_vloss | 0.2234 | 0.2234 | 48 | Mon Apr 19, 17:54:54 | 1h 25m 57s |

notredame_vloss

notredame_vloss
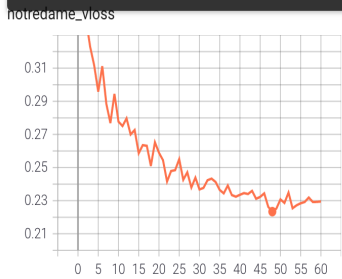
For the CNN2:

| CNN2 | para: sz/lr | vloss_step | vloss |
| --- | --- | --- | --- |
| 2_1 | 512/10 | 45 | 0.2143 |
| 2_2 | 512/15 | 52 | 0.2155 |
| 2_3 | 1024/10 | 38 | 0.215 |
| 2_4 | 1024/15 | 59 | 0.2193 |

```
: DesNet(
  (features): Sequential(
    (0): Conv2d(1, 32, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1),
  bias=False)
    (1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=False, track_run
  ning_stats=True)
    (2): ReLU()
    (3): Conv2d(32, 64, kernel_size=(4, 4), stride=(1, 1), bias=False)
    (4): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=False, track_run
  ning_stats=True)
    (5): ReLU()
    (6): Conv2d(64, 96, kernel_size=(6, 6), stride=(1, 1), bias=False)
    (7): BatchNorm2d(96, eps=1e-05, momentum=0.1, affine=False, track_run
  ning_stats=True)
    (8): ReLU()
    (9): Conv2d(96, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
    (10): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_r
  unning_stats=True)
    (11): ReLU()
    (12): Dropout(p=0.3, inplace=False)
    (13): Conv2d(128, 128, kernel_size=(8, 8), stride=(1, 1), bias=False)
    (14): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_r
  unning_stats=True)
  )
)
```
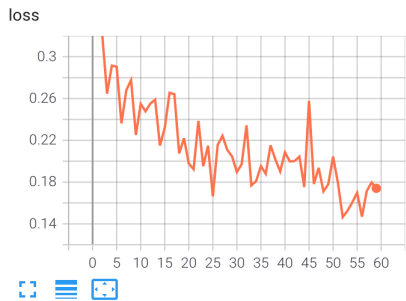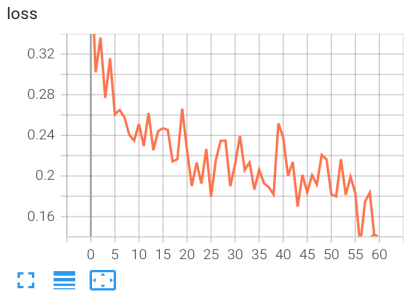
loss

loss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.2143 | 0.2143 | 45 | Thu Apr 22, 23:10:15 | 1h 20m 44s |
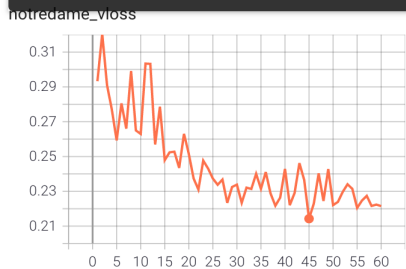
notredame_vloss

notredame_vloss

loss

loss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.2155 | 0.2155 | 52 | Thu Apr 22, 23:26:27 | 1h 36m 33s |

notredame_vloss
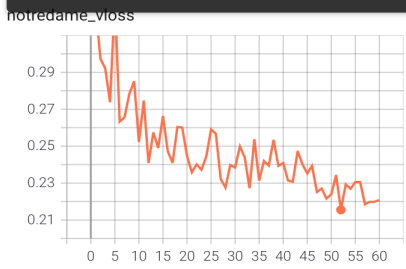
notredame_vloss



Tags matching /CNN2: bz=1024,lr=10/

loss
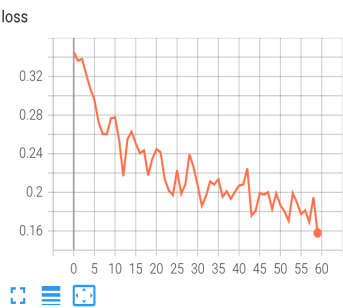
loss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.215 | 0.215 | 38 | Mon Apr 19, 20:01:29 | 1h 7m 52s |

notredame_vloss
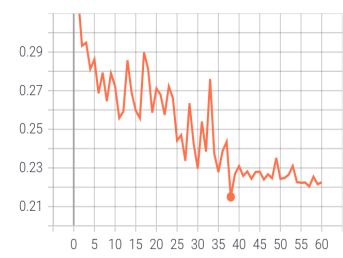
notredame_vloss



Tags matching /CNN2: bz=1024,lr=15/

loss
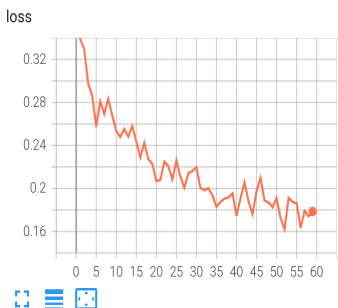
loss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.2193 | 0.2193 | 59 | Mon Apr 19, 20:35:51 | 1h 41m 54s |

notredame_vloss

notredame_vloss
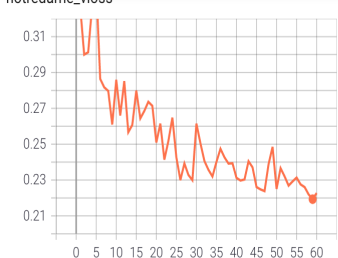
For CNN3:

| CNN3_1 | para: sz/lr | vloss_step | vloss |
|---|---|---|---|
| 3_1 | 512/10 | 47 | 0.2239 |
| 3_2 | 512/15 | 58 | 0.223 |
| 3_3 | 1024/10 | 55 | 0.2317 |
| 3_4 | 1024/15 | 59 | 0.231 |

```
[4]: DesNet(
       (features): Sequential(
         (0): Conv2d(1, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
         (1): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=False, track_running_stats=True)
         (2): ReLU()
         (3): Conv2d(32, 32, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
         (4): BatchNorm2d(32, eps=1e-05, momentum=0.1, affine=False, track_running_stats=True)
         (5): ReLU()
         (6): Dropout(p=0.3, inplace=False)
         (7): Conv2d(32, 64, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=False)
         (8): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=False, track_running_stats=True)
         (9): ReLU()
         (10): Dropout(p=0.3, inplace=False)
         (11): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
         (12): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=False, track_running_stats=Tru
     e)
         (13): ReLU()
         (14): Dropout(p=0.3, inplace=False)
         (15): Conv2d(64, 128, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=False)
         (16): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_running_stats=Tru
     e)
         (17): ReLU()
         (18): Dropout(p=0.3, inplace=False)
         (19): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
         (20): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_running_stats=Tru
     e)
         (21): ReLU()
         (22): Dropout(p=0.3, inplace=False)
         (23): Conv2d(128, 128, kernel_size=(8, 8), stride=(1, 1), bias=False)
         (24): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=False, track_running_stats=Tru
     e)
         )
       )
```
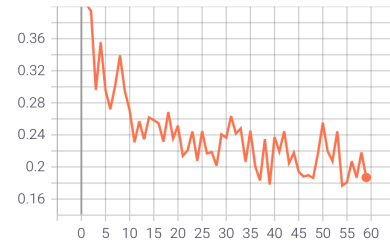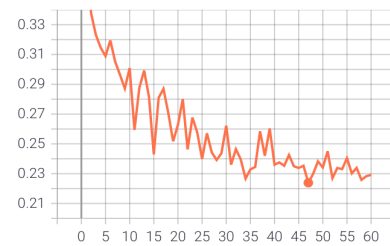
loss

loss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.2239 | 0.2239 | 47 | Thu Apr 22, 21:00:46 | 1h 24m 38s |

notredame_vloss

ss

oss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.223 | 0.223 | 58 | Thu Apr 22, 21:39:30 | 1h 39m 54s |
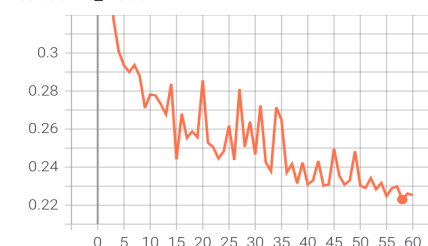
notredame_vloss

s

ss



| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.2317 | 0.2317 | 55 | Tue Apr 20, 10:20:53 | 1h 27m 17s |

notredame_vloss

s

ss
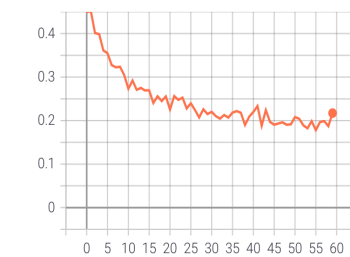


| Name | Smoothed | Value | Step | Time | Relative |
|---|---|---|---|---|---|
| . | 0.231 | 0.231 | 59 | Tue Apr 20, 02:50:07 | 1h 50m 7s |

notredame_vloss