```
1 ssh://user43@202.112.195.5:22/home/
   user43/.conda/envs/torch1.9/bin/
   python -u /home/user43/workspace/
   Cross_LangVC_projs/CL_ADAIN/Models.py
 2 AE(
 3
     (speaker_encoder): SpeakerEncoder(
       (act): ReLU()
 4
 5
       (conv_bank): ModuleList(
         (0): Conv1d(80, 128,
 6
   kernel_size=(1,), stride=(1,))
         (1): Conv1d(80, 128,
 7
   kernel_size=(2,), stride=(1,))
         (2): Conv1d(80, 128,
 8
   kernel_size=(3,), stride=(1,))
         (3): Conv1d(80, 128,
   kernel_size=(4,), stride=(1,))
         (4): Conv1d(80, 128,
10
   kernel_size=(5,), stride=(1,))
         (5): Conv1d(80, 128,
11
   kernel_size=(6,), stride=(1,))
         (6): Conv1d(80, 128,
12
   kernel_size=(7,), stride=(1,))
         (7): Conv1d(80, 128,
13
   kernel_size=(8,), stride=(1,))
14
       (in_conv_layer): Conv1d(1104, 128
15
   , kernel_size=(1,), stride=(1,))
       (first_conv_layers): ModuleList(
16
         (0): Conv1d(128, 128,
17
   kernel_size=(5,), stride=(1,))
         (1): Conv1d(128, 128,
18
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File - Models
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18 kernel_size=(5,), stride=(1,))
         (2): Conv1d(128, 128,
19
   kernel_size=(5,), stride=(1,))
         (3): Conv1d(128, 128,
20
   kernel_size=(5,), stride=(1,))
         (4): Conv1d(128, 128,
21
   kernel_size=(5,), stride=(1,))
         (5): Conv1d(128, 128,
22
   kernel_size=(5,), stride=(1,))
23
       (second_conv_layers): ModuleList(
24
         (0): Conv1d(128, 128,
25
   kernel_size=(5,), stride=(1,))
         (1): Conv1d(128, 128,
26
   kernel_size=(5,), stride=(2,))
         (2): Conv1d(128, 128,
27
   kernel_size=(5,), stride=(1,))
         (3): Conv1d(128, 128,
28
   kernel_size=(5,), stride=(2,))
         (4): Conv1d(128, 128,
29
   kernel_size=(5,), stride=(1,))
         (5): Conv1d(128, 128,
30
   kernel_size=(5,), stride=(2,))
31
32
       (pooling_layer):
   AdaptiveAvgPool1d(output_size=1)
       (first_dense_layers): ModuleList(
33
         (0): Linear(in_features=128,
34
   out_features=128, bias=True)
         (1): Linear(in_features=128,
35
   out_features=128, bias=True)
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File - Models
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(2): Linear(in_features=128,
36
   out_features=128, bias=True)
         (3): Linear(in_features=128,
37
   out_features=128, bias=True)
         (4): Linear(in_features=128,
38
   out_features=128, bias=True)
         (5): Linear(in_features=128,
39
   out_features=128, bias=True)
40
       (second_dense_layers): ModuleList
41
   (
         (0): Linear(in_features=128,
42
   out_features=128, bias=True)
         (1): Linear(in_features=128,
43
   out_features=128, bias=True)
         (2): Linear(in_features=128,
44
   out_features=128, bias=True)
         (3): Linear(in_features=128,
45
   out_features=128, bias=True)
         (4): Linear(in_features=128,
46
   out_features=128, bias=True)
         (5): Linear(in_features=128,
47
   out_features=128, bias=True)
48
       )
       (output_layer): Linear(
49
   in_features=128, out_features=128,
   bias=True)
       (dropout_layer): Dropout(p=0,
50
   inplace=False)
51
     (content_encoder): ContentEncoder(
52
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File - Models
        (act): ReLU()
53
        (conv_bank): ModuleList(
54
          (0): Conv1d(80, 128,
55
   kernel_size=(1,), stride=(1,))
          (1): Conv1d(80, 128,
56
   kernel_size=(2,), stride=(1,))
          (2): Conv1d(80, 128,
57
   kernel_size=(3,), stride=(1,))
          (3): Conv1d(80, 128,
58
   kernel_size=(4,), stride=(1,))
          (4): Conv1d(80, 128,
59
   kernel_size=(5,), stride=(1,))
          (5): Conv1d(80, 128,
60
   kernel_size=(6,), stride=(1,))
          (6): Conv1d(80, 128,
61
   kernel_size=(7,), stride=(1,))
          (7): Conv1d(80, 128,
62
   kernel_size=(8,), stride=(1,))
63
        (in_conv_layer): Conv1d(1104, 128
64
   , kernel_size=(1,), stride=(1,))
        (first_conv_layers): ModuleList(
65
          (0): Conv1d(128, 128,
66
   kernel_size=(5,), stride=(1,))
          (1): Conv1d(128, 128,
67
   kernel_size=(5,), stride=(1,))
```

```
(2): Conv1d(128, 128,
68
   kernel_size=(5,), stride=(1,))
          (3): Conv1d(128, 128,
69
   kernel_size=(5,), stride=(1,))
          (4): Conv1d(128, 128,
70
                    Page 4 of 8
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```
70 kernel_size=(5,), stride=(1,))
         (5): Conv1d(128, 128,
71
   kernel_size=(5,), stride=(1,))
72
       (second_conv_layers): ModuleList
73
   (
         (0): Conv1d(128, 128,
74
   kernel_size=(5,), stride=(1,))
         (1): Conv1d(128, 128,
75
   kernel_size=(5,), stride=(2,))
         (2): Conv1d(128, 128,
76
   kernel_size=(5,), stride=(1,))
         (3): Conv1d(128, 128,
77
   kernel_size=(5,), stride=(2,))
         (4): Conv1d(128, 128,
78
   kernel_size=(5,), stride=(1,))
         (5): Conv1d(128, 128,
79
   kernel_size=(5,), stride=(2,))
80
81
       (norm_layer): InstanceNorm1d(128
     eps=1e-05, momentum=0.1, affine=
   False, track_running_stats=False)
       (mean_layer): Conv1d(128, 128,
82
   kernel_size=(1,), stride=(1,))
       (std_layer): Conv1d(128, 128,
83
   kernel_size=(1,), stride=(1,))
       (dropout_layer): Dropout(p=0,
84
   inplace=False)
85
     (decoder): Decoder(
86
       (act): ReLU()
87
```

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File - Models
         (in_conv_layer): Conv1d(128, 128
 88
      kernel_size=(1,), stride=(1,))
         (first_conv_layers): ModuleList(
 89
           (0): Conv1d(128, 128,
 90
    kernel_size=(5,), stride=(1,))
           (1): Conv1d(128, 128,
 91
    kernel_size=(5,), stride=(1,))
           (2): Conv1d(128, 128,
 92
    kernel_size=(5,), stride=(1,))
           (3): Conv1d(128, 128,
 93
    kernel_size=(5,), stride=(1,))
           (4): Conv1d(128, 128,
 94
    kernel_size=(5,), stride=(1,))
           (5): Conv1d(128, 128,
 95
    kernel_size=(5,), stride=(1,))
 96
         (second_conv_layers): ModuleList
 97
     (
           (0): Conv1d(128, 256,
 98
    kernel_size=(5,), stride=(1,))
           (1): Conv1d(128, 128,
 99
    kernel_size=(5,), stride=(1,))
           (2): Conv1d(128, 256,
100
    kernel_size=(5,), stride=(1,))
           (3): Conv1d(128, 128,
101
    kernel_size=(5,), stride=(1,))
           (4): Conv1d(128, 256,
102
    kernel_size=(5,), stride=(1,))
           (5): Conv1d(128, 128,
103
    kernel_size=(5,), stride=(1,))
104
```

```
(norm_layer): InstanceNorm1d(128
105
      eps=1e-05, momentum=0.1, affine=
    False, track_running_stats=False)
        (conv_affine_layers): ModuleList
106
    (
          (0): Linear(in_features=128,
107
    out_features=256, bias=True)
          (1): Linear(in_features=128,
108
    out_features=256, bias=True)
          (2): Linear(in_features=128,
109
    out_features=256, bias=True)
          (3): Linear(in_features=128,
110
    out_features=256, bias=True)
          (4): Linear(in_features=128,
111
    out_features=256, bias=True)
          (5): Linear(in_features=128,
112
    out_features=256, bias=True)
          (6): Linear(in_features=128,
113
    out_features=256, bias=True)
          (7): Linear(in_features=128,
114
    out_features=256, bias=True)
          (8): Linear(in_features=128,
115
    out_features=256, bias=True)
          (9): Linear(in_features=128,
116
    out_features=256, bias=True)
          (10): Linear(in_features=128,
117
    out_features=256, bias=True)
          (11): Linear(in_features=128,
118
    out_features=256, bias=True)
119
        (out_conv_layer): Conv1d(128, 80
120
```

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File - Models
120 , kernel_size=(1,), stride=(1,))
         (dropout_layer): Dropout(p=0,
121
    inplace=False)
122
123 )
124 Model adain, the number of parameters
      4892880
125 000000
126 input mel torch.Size([1, 80, 128])
127 tar mel torch.Size([1, 80, 160])
128 l1 loss 0.7275683879852295
129 dec mel: torch.Size([1, 80, 128])
130 mu torch.Size([1, 128, 16])
131 log_sigma torch.Size([1, 128, 16])
132 emb torch.Size([1, 128])
133 ØØinfe
134 infe mel, torch.Size([1, 80, 128])
135
136 Process finished with exit code 0
```

137