

camb\_pytorch运行结果:

![image-20210421114328223](../../Library/Application Support/typora-user-images/image-20210421114328223.png)

```
1 >>> import torch_mlu.core.mlu_model as ct
2 CNML: 7.9.2 1a1e33b
3 CNRT: 4.10.0 af3d5e7
4 >>> import torch
5 >>> cuda_a = torch.randn(3, 2,
6 1).to(ct.mlu_device())
7 >>> cuda_b = torch.randn(2, 5).to(ct.mlu_device())
8 >>> torch.add(cuda_a, cuda_b)
9 2021-04-21 11:42:31.830927: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
10 2021-04-21 11:42:31.831007: [cnrtWarning] [66132]
[Card : 0] The device you run is MLU290, but the
platform in kernel is MLU270!
11 2021-04-21 11:42:31.857678: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
12 2021-04-21 11:42:31.857730: [cnrtWarning] [66132]
[Card : 0] The device you run is MLU290, but the
platform in kernel is MLU270!
13 2021-04-21 11:42:31.871900: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
14 2021-04-21 11:42:31.871951: [cnrtWarning] [66132]
[Card : 0] The device you run is MLU290, but the
platform in kernel is MLU270!
15 2021-04-21 11:42:31.887486: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
16 2021-04-21 11:42:31.887535: [cnrtWarning] [66132]
[Card : 0] The device you run is MLU290, but the
platform in kernel is MLU270!
17 2021-04-21 11:42:31.903459: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
```

```
17 2021-04-21 11:42:31.903508: [cnrtWarning] [66132]
    [Card : 0] The device you run is MLU290, but the
    platform in kernel is MLU270!
18 2021-04-21 11:42:31.918723: [cnrtWarning] [66132]
    [Card : 0] The device you run is not the same as the
    platform in kernel!
19 2021-04-21 11:42:31.918757: [cnrtWarning] [66132]
    [Card : 0] The device you run is MLU290, but the
    platform in kernel is MLU270!
20 2021-04-21 11:42:31.942358: [cnrtWarning] [66132]
    [Card : 0] The device you run is not the same as the
    platform in kernel!
21 2021-04-21 11:42:31.942390: [cnrtWarning] [66132]
    [Card : 0] The device you run is MLU290, but the
    platform in kernel is MLU270!
22 2021-04-21 11:42:31.944089: [cnmlError]
    MLU::dyadic_all dimension mismatch,output shape is
    wrong, the given shape is:(n=1, c=30,h=1,w=1, d=0,
    t=0, data in array:{1, 1, 1, 30, } , but the
    expected shape is:(n=30, c=1,h=1,w=1, d=0, t=0, data
    in array:{30, 1, 1, 1, }
23 2021-04-21 11:42:31.946056: [cnmlError]
    MLU::dyadic_all Op update tensor shape failed
24 [ERROR]
    [/home/jiangyongjiu1/utis/v1.0.0rc1/cambricon_pytor
    ch/pytorch/src/catch/torch_mlu/csrc/aten/operators/c
    nml/internal/eq_internal.cpp][line: 35]
    [cnml_eq_internal][thread:140007329646400]
    [process:66132]:
25 CNML error: CNML_STATUS_INVALIDPARAM
26 [WARNING]
    [/home/jiangyongjiu1/utis/v1.0.0rc1/cambricon_pytor
    ch/pytorch/src/catch/torch_mlu/csrc/aten/operators/o
    p_methods.cpp][line: 1217][eq]
    [thread:140007329646400][process:66132]:
    OpMethods::eq Op running on CPU!
27 2021-04-21 11:42:31.951626: [cnmlError] MLU::unary
    dimension mismatch,output shape is wrong, the given
    shape is:(n=1, c=30,h=1,w=1, d=0, t=0, data in
    array:{1, 1, 1, 30, } , but the expected shape is:
    (n=30, c=1,h=1,w=1, d=0, t=0, data in array:{30, 1,
    1, 1, }
```

```
28 2021-04-21 11:42:31.951728: [cnmlError] MLU::unary
Op update tensor shape failed
29 [ERROR]
[/home/jiangyongjiu1/utils/v1.0.0rc1/cambricon_pytor
ch/pytorch/src/catch/torch_mlu/csrc/aten/operators/c
nml/internal/abs_internal.cpp][line: 30]
[cnml_abs_internal][thread:140007329646400]
[process:66132]:
30 CNML error: CNML_STATUS_INVALIDPARAM
31 [WARNING]
[/home/jiangyongjiu1/utils/v1.0.0rc1/cambricon_pytor
ch/pytorch/src/catch/torch_mlu/csrc/aten/operators/o
p_methods.cpp][line: 424][abs]
[thread:140007329646400][process:66132]:
OpMethods::abs Op running on CPU!
32 2021-04-21 11:42:31.965093: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
33 2021-04-21 11:42:31.965119: [cnrtWarning] [66132]
[Card : 0] The device you run is MLU290, but the
platform in kernel is MLU270!
34 2021-04-21 11:42:31.975662: [cnrtWarning] [66132]
[Card : 0] The device you run is not the same as the
platform in kernel!
35 2021-04-21 11:42:31.975700: [cnrtWarning] [66132]
[Card : 0] The device you run is MLU290, but the
platform in kernel is MLU270!
36 2021-04-21 11:42:31.977112: [cnmlError]
MLU::dyadic_all Op should follow these rules:
input1_n == input2_n, now, input1_n=30,
input2_n=lop_id:15
37 2021-04-21 11:42:31.977226: [cnmlError]
MLU::dyadic_all Op dimension mismatch
38 [ERROR]
[/home/jiangyongjiu1/utils/v1.0.0rc1/cambricon_pytor
ch/pytorch/src/catch/torch_mlu/csrc/aten/operators/c
nml/internal/ne_internal.cpp][line: 35]
[cnml_ne_internal][thread:140007329646400]
[process:66132]:
39 CNML error: CNML_STATUS_INVALIDPARAM
```

```

40 [WARNING]
   [/home/jiangyongjiu1/Utils/v1.0.0rc1/cambricon_pytorch/pytorch/src/catch/torch_mlu/csrc/aten/operators/op_methods.cpp][line: 459][ne]
   [thread:140007329646400][process:66132]:
   OpMethods::ne Op running on CPU!
41 2021-04-21 11:42:31.989077: [cnrtWarning] [66132]
   [Card : 0] The device you run is not the same as the
   platform in kernel!
42 2021-04-21 11:42:31.989116: [cnrtWarning] [66132]
   [Card : 0] The device you run is MLU290, but the
   platform in kernel is MLU270!
43 [WARNING]
   [/home/jiangyongjiu1/Utils/v1.0.0rc1/cambricon_pytorch/pytorch/src/catch/torch_mlu/csrc/aten/operators/op_methods.cpp][line: 3174][masked_select]
   [thread:140007329646400][process:66132]:
   OpMethods::masked_select Op running on CPU!
44 Traceback (most recent call last):
45   File "<stdin>", line 1, in <module>
46   File
   "/nvme/yanzijie_cuda10/miniconda3/envs/pytorch/lib/python3.6/site-packages/torch/tensor.py", line 123,
   in __repr__
47     return torch._tensor_str._str(self)
48   File
   "/nvme/yanzijie_cuda10/miniconda3/envs/pytorch/lib/python3.6/site-packages/torch/_tensor_str.py", line
   311, in _str
49     tensor_str = _tensor_str(self, indent)
50   File
   "/nvme/yanzijie_cuda10/miniconda3/envs/pytorch/lib/python3.6/site-packages/torch/_tensor_str.py", line
   209, in _tensor_str
51     formatter = _Formatter(get_summarized_data(self)
   if summarize else self)
52   File
   "/nvme/yanzijie_cuda10/miniconda3/envs/pytorch/lib/python3.6/site-packages/torch/_tensor_str.py", line
   87, in __init__
53     nonzero_finite_vals =
   torch.masked_select(tensor_view,
   torch.isfinite(tensor_view) & tensor_view.ne(0))

```

```

54 RuntimeError: Expected object of scalar type Bool
   but got scalar type Float for argument #2 'mask' in
   call to _th_masked_select_bool
55 >>> ght", "credits" or "license" for more
   information.
56     File "<stdin>", line 1
57     ght", "credits" or "license" for more
   information.
58         ^
59 SyntaxError: invalid syntax
60 >>> >>> import torch_mlu.core.mlu_model as ct
61     File "<stdin>", line 1
62     >>> import torch_mlu.core.mlu_model as ct
63         ^
64 SyntaxError: invalid syntax
65 >>> CNML: 7.9.2 1a1e33b
66     File "<stdin>", line 1
67     CNML: 7.9.2 1a1e33b
68         ^
69 SyntaxError: invalid syntax
70 >>> CNRT: 4.10.0 af3d5e7
71     File "<stdin>", line 1
72     CNRT: 4.10.0 af3d5e7
73         ^
74 SyntaxError: invalid syntax
75 >>> >>> import torch
76     File "<stdin>", line 1
77     >>> import torch
78         ^
79 SyntaxError: invalid syntax
80 >>> >>> cuda_a = torch.randn(3, 2,
   1).to(ct.mlu_device())
81     File "<stdin>", line 1
82     >>> cuda_a = torch.randn(3, 2,
   1).to(ct.mlu_device())
83         ^
84 SyntaxError: invalid syntax
85 >>> >>> cuda_b = torch.randn(2,
   5).to(ct.mlu_device())
86     File "<stdin>", line 1
87     >>> cuda_b = torch.randn(2,
   5).to(ct.mlu_device())
88         ^

```

```

89  SyntaxError: invalid syntax
90  >>> >>> torch.add(cuda_a, cuda_b)
91      File "<stdin>", line 1
92          >>> torch.add(cuda_a, cuda_b)
93              ^
94  SyntaxError: invalid syntax
95  >>> 2021-04-21 11:42:31.830927: [cnrtWarning]
[66132] [Card : 0] The device you run is not the
same as the platform in kernel!
96      File "<stdin>", line 1
97          2021-04-21 11:42:31.830927: [cnrtWarning]
[66132] [Card : 0] The device you run is not the
same as the platform in kernel!
98              ^
99  SyntaxError: invalid token
100 >>> 2021-04-21 11:42:31.831007: [cnrtWarning]
[66132] [Card : 0] The device you run is MLU290, but
the platform in kernel is MLU270!
101     File "<stdin>", line 1
102         2021-04-21 11:42:31.831007: [cnrtWarning]
[66132] [Card : 0] The device you run is MLU290, but
the platform in kernel is MLU270!
103             ^
104  SyntaxError: invalid token
105 >>> 2021-04-21 11:42:31.857678: [cnrtWarning]
[66132] [Card : 0] The device you run is not the
same as the platform in kernel!
106     File "<stdin>", line 1
107         2021-04-21 11:42:31.857678: [cnrtWarning]
[66132] [Card : 0] The device you run is not the
same as the platform in kernel!
108             ^
109  SyntaxError: invalid token
110 >>> 2021-04-21 11:42:31.857730: [cnrtWarning]
[66132] [Card : 0] The device you run is MLU290, but
the platform in kernel is MLU270!
111     File "<stdin>", line 1
112         2021-04-21 11:42:31.857730: [cnrtWarning]
[66132] [Card : 0] The device you run is MLU290, but
the platform in kernel is MLU270!
113             ^
114  SyntaxError: invalid token

```

```
115 >>> 2021-04-21 11:42:31.871900: [cnrtWarning]
    [66132] [Card : 0] The device you run is not the
    same as the platform in kernel!
116     File "<stdin>", line 1
117     2021-04-21 11:42:31.871900: [cnrtWarning]
    [66132] [Card : 0] The device you run is not the
    same as the platform in kernel!
118         ^
119 SyntaxError: invalid token
120 >>> 2021-04-21 11:42:31.871951: [cnrtWarning]
    [66132] [Card : 0] The device you run is MLU290, but
    the platform in kernel is MLU270!
121     File "<stdin>", line 1
122     2021-04-21 11:42:31.871951: [cnrtWarning]
    [66132] [Card : 0] The device you run is MLU290, but
    the platform in kernel is MLU270!
123         ^
124 SyntaxError: invalid token
125 >>> 2021-04-21 11:42:31.887486: [cnrtWarning]
    [66132] [Card : 0] The device you run is not the
    same as the platform in kernel!
126     File "<stdin>", line 1
127     2021-04-21 11:42:31.887486: [cnrtWarning]
    [66132] [Card : 0] The device you run is not the
    same as the platform in kernel!
128         ^
129 SyntaxError: invalid token
130 >>> 2021-04-21 11:42:31.887535: [cnrtWarning]
    [66132] [Card : 0] The device you run is MLU290, but
    the platform in kernel is MLU270!
131     File "<stdin>", line 1
132     2021-04-21 11:42:31.887535: [cnrtWarning]
    [66132] [Card : 0] The device you run is MLU290, but
    the platform in kernel is MLU270!
133         ^
134 SyntaxError: invalid token
135 >>> 2021-04-21 11:42:31.903459: [cnrtWarning]
    [66132] [Card : 0] The device you run is not the
    same as the platform in kernel!
136     File "<stdin>", line 1
137     2021-04-21 11:42:31.903459: [cnrtWarning]
    [66132] [Card : 0] The device you run is not the
    same as the platform in kernel!
```

```
138      ^
139 SyntaxError: invalid token
```

senseparrots运行结果:

```
[HOST-10-198-7-23][[24520,1],0][btl_openib_component.c:1705:init_one_device] error obtaining device attributes for mlx5_0 errno says No
space left on device
-----
WARNING: There was an error initializing an OpenFabrics device.

Local host:  HOST-10-198-7-23
Local device: mlx5_0
-----
2021-04-21 11:12:41,004 INFO: log service ip address is: 10.198.7.23:26584
2021-04-21 11:12:41,005 INFO: Parrots 0.11.0 | Git hash: 3ed88734
>>> cuda_a = torch.randn(1, 3, 5).cuda()
>>> cuda_b = torch.randn(3, 1).cuda()
>>> torch.add(cuda_a, cuda_b)
[2021-4-21 11:12:59] [CNL] [Error]:cnlOpTensor operation, the dim values of the two input tensors don't meet the requirements of broa
dcast or the dim values of the inferred tensor does not equal the output tensor.
[2021-4-21 11:12:59] [CNL] [Error]:cnlOpTensor Please check your cnlTensorDescriptor_t.
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "/mnt/share/xieyuming/senseparrots/python/torch/tensor.py", line 80, in __repr__
    array = self.ndarray()
  File "/mnt/share/xieyuming/senseparrots/python/parrots/darray/darray.py", line 64, in ndarray
    return op.to_arch(self, HostT).numpy()
  File "/mnt/share/xieyuming/senseparrots/python/parrots/ir.py", line 32, in wrapper
    return func(*args, **kwargs)
  File "/mnt/share/xieyuming/senseparrots/python/parrots/darray/darray.py", line 87, in numpy
    self.wait_ready()
RuntimeError: Cnlr error at /mnt/share/xieyuming/senseparrots/src/compute/src/darray/camb/add.cpp (104): CNL_STATUS_NOT_SUPPORTED.
Opcode: add
  in0: Float32(1, 3, 5)@(15, 5, 1)@CMB
  in1: Float32(3, 1)@(1, 1)@CMB
  out0: Float32(1, 3, 5)@(15, 5, 1)@CMB
attrs: null
```

cuda\_pytorch运行结果:

```
(pytorchGpu) user@ubuntu2:~$ python
Python 3.7.3 (default, Mar 27 2019, 22:11:17)
[GCC 7.3.0] :: Anaconda, Inc. on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import torch
>>> cuda_a = torch.randn(1, 3, 5).cuda()
>>> cuda_b = torch.randn(3, 1).cuda()
>>> torch.add(cuda_a, cuda_b)
tensor([[[ 1.9860,  1.0096,  3.7847,  1.8395,  1.1312],
          [-0.6357,  3.0336,  1.5932, -0.9443, -1.0214],
          [-0.1545, -0.4464,  0.6667, -0.5410,  1.0866]]], device='cuda:0')
```

出现同样问题的有:

cuda\_a.shape: (3, 2, 1)

cuda\_b.shape:(2, 5)