

Mindspore.mint 接口测试报告

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1 测试背景与目的

本次测试围绕 MindSpore（以及对应的 PyTorch）中的以下算子接口进行功能性与一致性测试：

- `sigmoid`, `sign`, `sin`, `sinc`, `sinh`
- `log1p`, `logaddexp`, `logical_and`, `logical_not`, `logical_or`

测试主要验证以下几点：

- 1) 不同 `dtype` 支持能力，以及随机输入对比 MindSpore 和 PyTorch 计算结果的一致性（允许误差 $< 1e-3$ ）。
- 2) 固定 `dtype` 和形状下，是否能正确对齐输出；同时传入混乱参数或异常输入时，能否给出合理的报错信息。
- 3) 测试在使用这些接口构造简单神经网络时，MindSpore 与 PyTorch 在前向推理与反向梯度上的对齐程度。
- 4) 测试时的潜在问题记录，包括环境安装、CANN 或 `memcpy` 等错误、对齐性不足等。

2 测试环境与方法

2.1 环境信息

- 测试平台：macOS (Apple M1) 或同等
- Python 版本：3.11.11
- MindSpore 版本：2.4.10
- PyTorch 版本：2.5.1
- 测试工具：`pytest` (版本 8.3.4)

2.2 测试方法

分别为每个接口撰写独立的测试脚本文件 `test_xxx.py`。对于每个测试点，编写以下类别的测试函数：

- a) 测试随机输入与不同 dtype
- b) 测试固定 dtype、随机或固定输入值，对比两个框架输出结果
- c) 测试固定 shape、混乱参数 (string / bool 等)
- d) 测试随机混乱输入，检查报错信息
- e) 使用接口构造简单网络 (或函数)，比较前向推理对齐情况，以及反向传播的参数或输入梯度对齐

3 测试脚本与日志摘要

3.1 测试脚本概览

以下算子均有各自的 `test_xxx.py` 文件，包括：

- `test_sigmoid.py`, `test_sign.py`, `test_sin.py`, `test_sinc.py`, `test_sinh.py`
- `test_log1p.py`, `test_logaddexp.py`, `test_logical_and.py`, `test_logical_not.py`, `test_logical_or.py`

每个文件中，均包含了固定输入随机输入、异常输入、网络前向后向等测试场景，以及适度的日志输出，保证测试覆盖度。

3.2 运行日志与结果

运行 `pytest` 后，测试结果日志显示共计 75 项测试用例，其中 65 项通过，10 项失败。

失败用例总结：

1. **logaddexp** 系列测试共 5 项失败：MindSpore 2.4.10 尚未注册 `logaddexp` 内核，导致 “kernel LogAddExp unregistered”。故在所有调用 `logaddexp` 的用例中出现 `RuntimeError`。
2. **logical_not 空张量用例**：测试 `logical_not` 在空张量时出现 “input_data can not contain zero dimension” 的 `ValueError`。这说明 MindSpore 在 `Tensor` 构造时，不允许 `size=0` 的 `numpy` 数组。
3. **sigmoid 空张量用例**：同样出现 “input_data can not contain zero dimension” 的错误，原因与上类似。
4. **sign 空张量用例**：出现同样的 zero-dimension 报错。
5. **sin 空张量用例**：依旧是 zero-dimension 错误。
6. **sinc 空张量用例**：同理是 zero-dimension 报错。

由此可见，MindSpore 目前对输入为 `size=0` 空张量尚无通用支持，会在构造 `Tensor` 阶段抛出异常；与 PyTorch 的做法（可构造 `shape=(0,)` 的张量并返回空输出）并不一致。

4 问题定位与建议

4.1 关于 `logaddexp` 内核 “unregistered”

MindSpore 在 2.4.10 版本中并未包含 `logaddexp` 算子的内核支持，这导致所有相关测试均在执行时失败。**建议：**

- 如需此算子，可等待后续官方版本集成，或者在内部自行实现并注册内核。
- 目前先行跳过该类测试或给出 `pytest.skip` 标志，以免测试全局 fail。

4.2 关于空张量输入 (zero dimension)

MindSpore 构建张量时若发现 `np.ndarray.size == 0`，默认抛出 `ValueError`，此与 PyTorch 行为不一致。**建议：**

- 如果测试需求不需要支持空张量，可移除或跳过该测试用例；若必须支持，可以向 MindSpore 反馈需求或查看源码能否添加空张量兼容性。
- 在测试前做检查，若 `arr.size == 0` 则 `pytest.skip("MindSpore 不支持 size=0 的输入")`。

4.3 其余通过用例

除上述 10 个失败用例外，其余 65 个用例均成功通过，说明在非空张量前提下，`sigmoid`, `sign`, `sin`, `sinc`, `sinh`, `log1p`, `logical_and`, `logical_not`, `logical_or` 均可较好地对齐 PyTorch，且在网络前向后向测试中也保持一致。

5 结论

1. **空张量兼容性**：MindSpore 不允许在 `Tensor` 构造时使用 `size=0` 的 `numpy` 数组；可以视为已知限制或后续版本特性。
2. **logaddexp 算子支持**：MindSpore 2.4.10 版本缺失该内核，导致相应用例全部失败。
3. **其余接口**：非空张量场景下，对比 PyTorch 一致性良好。

注：本测试报告仅针对上述 10 个接口在给定机器和软件栈上的测试结果，实际部署和更广泛场景下还需更多补充测试（如 GPU/Ascend 环境、多进程、多卡同步等）。

6 附录：pytest 命令与日志

6.1 执行命令

```
cd /path/to/Mindspore
pytest .
```

6.2 关键日志摘录

```
pytest .

=====
      test session starts
=====

platform darwin -- Python 3.11.11, pytest-8.3.4, pluggy-1.5.0
rootdir: /Users/ioxyz/PycharmProjects/Mindspore
collected 75 items

13/test_log1p.py .....

      [ 9%]
13/test_logaddexp.py .FF.FFF

      [ 18%]
13/test_logical_and.py .....

      [ 28%]
13/test_logical_not.py ....F..

      [ 37%]
13/test_logical_or.py .....

      [ 46%]
16/test_sigmoid.py .....F..

      [ 57%]
16/test_sign.py ....F...

      [ 68%]
16/test_sin.py ....F...

      [ 78%]
16/test_sinc.py .....F...

      [ 90%]
```

16/test_sinh.py

[100%]

```
=====
FAILURES
=====
```

```
-----
test_logaddexp_calculation_fixed_dtype
-----
```

```
def test_logaddexp_calculation_fixed_dtype():
    """
    (1b) 固定 dtype(float32)+固定输入
    """
    print_env_info()
    a_arr = np.array([0.0, 1.0, 2.0], dtype=np.float32)
    b_arr = np.array([2.0, 1.0, 0.0], dtype=np.float32)
    ms_out = logaddexp(Tensor(a_arr), Tensor(b_arr))
    torch_out = torch.logaddexp(torch.tensor(a_arr), torch.
        tensor(b_arr))
>     assert np.allclose(ms_out.asnumpy(), torch_out.detach().
numpy(), atol=1e-4)
```

13/test_logaddexp.py:44:

```
- - - - -
- - - - -
- - - - -
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:48: in fun
    arg = (stub.stub_sync(),) + arg[1:]
- - - - -
- - - - -
- - - - -
```

```
self = <[RuntimeError('The kernel LogAddExp unregistered.\n\n
-----\n- C++ Call
...ore/ops/kernel/common/pyboost/pyboost_utils.cc:569
```



```

SelectKernel\n') raised in repr()] StubTensor object at 0
x12a26edd0>

def stub_sync(self):
    """sync real tensor."""
    if self.stub:
>         val = self.stub.get_value()
E         RuntimeError: The kernel LogAddExp unregistered.
E
E         -----
E         - C++ Call Stack: (For framework developers)
E         -----
E         mindspore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:159: RuntimeError
-----

Captured stdout call
-----

==== Environment Info ====
MindSpore version: 2.4.10
PyTorch version: 2.5.1
=====

-----
test_logaddexp_calculation_random_dtype
-----

def test_logaddexp_calculation_random_dtype():
    """
    (1a) 随机输入, 不同 dtype
    """
    print_env_info()
    dmap = {
        mstype.float16: torch.float16,
        mstype.float32: torch.float32,
        mstype.float64: torch.float64

```

```

    }
    for ms_dt, torch_dt in dmap.items():
        a_arr = np.random.randn(4, 4).astype(mindspore.
            dtype_to_nptype(ms_dt))
        b_arr = np.random.randn(4, 4).astype(mindspore.
            dtype_to_nptype(ms_dt))
        ms_out = logaddexp(Tensor(a_arr, ms_dt), Tensor(b_arr,
            ms_dt))
        torch_out = torch.logaddexp(torch.tensor(a_arr, dtype=
            torch_dt),
                                torch.tensor(b_arr, dtype=
                                torch_dt))
>         assert np.allclose(ms_out.asnumpy(), torch_out.detach().
numpy(), atol=1e-3)

```

13/test_logaddexp.py:62:

```

- - - - -
- - - - -
- - - - -
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:48: in fun
    arg = (stub.stub_sync(),) + arg[1:]
- - - - -
- - - - -
- - - - -

```

```

self = <[RuntimeError('The kernel LogAddExp unregistered.\n\n
-----\n- C++ Call
...ore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel\n') raised in repr()]] StubTensor object at 0
x12a256010>

```

```

def stub_sync(self):
    """sync real tensor."""
    if self.stub:
>         val = self.stub.get_value()
E         RuntimeError: The kernel LogAddExp unregistered.
E
E         -----

```

```

E          - C++ Call Stack: (For framework developers)
E          -----
E          mindspore/ops/kernel/common/pyboost/pyboost_utils.cc:569
          SelectKernel

```

```

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:159: RuntimeError
-----

```

```

    Captured stdout call
-----

```

```

===== Environment Info =====

```

```

MindSpore version: 2.4.10

```

```

PyTorch version: 2.5.1

```

```

=====

```

```

-----
test_logaddexp_calculation_broadcast
-----

```

```

def test_logaddexp_calculation_broadcast():
    """
    扩展：广播形状
    """
    print_env_info()
    a_arr = np.random.randn(2, 1).astype(np.float32)
    b_arr = np.random.randn(1, 2).astype(np.float32)
    ms_out = logaddexp(Tensor(a_arr), Tensor(b_arr))
    torch_out = torch.logaddexp(torch.tensor(a_arr), torch.
        tensor(b_arr))
>     assert np.allclose(ms_out.asnumpy(), torch_out.detach().
        numpy(), atol=1e-3)

```

```

13/test_logaddexp.py:85:

```

```

-----
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:48: in fun

```

```

    arg = (stub.stub_sync(),) + arg[1:]
- - - - -
- - - - -
- - - - -

self = <[RuntimeError('The kernel LogAddExp unregistered.\n\n
-----\n- C++ Call
...ore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel\n') raised in repr()] StubTensor object at 0
x12a26edd0>

def stub_sync(self):
    """sync real tensor."""
    if self.stub:
>         val = self.stub.get_value()
E         RuntimeError: The kernel LogAddExp unregistered.
E
E         -----
E         - C++ Call Stack: (For framework developers)
E         -----
E         mindspore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:159: RuntimeError
-----

Captured stdout call
-----

==== Environment Info ====
MindSpore version: 2.4.10
PyTorch version: 2.5.1
=====

-----
test_logaddexp_nn_inference_compare_with_torch
-----

def test_logaddexp_nn_inference_compare_with_torch():

```

```

"""
(2b) 比较网络前向推理
"""

print_env_info()
net_ms = LogAddExpNetMindspore()
a_arr = np.random.randn(2, 2).astype(np.float32)
b_arr = np.random.randn(2, 2).astype(np.float32)
> ms_out = net_ms(Tensor(a_arr), Tensor(b_arr)).asnumpy()

13/test_logaddexp.py:104:
- - - - -
- - - - -
- - - - -
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/_stub_tensor.py:48: in fun
    arg = (stub.stub_sync(),) + arg[1:]
- - - - -
- - - - -
- - - - -

self = <[RuntimeError('The kernel LogAddExp unregistered.\n\n
-----\n- C++ Call
...ore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel\n') raised in repr()]] StubTensor object at 0
x12a18c950>

def stub_sync(self):
    """sync real tensor."""
    if self.stub:
>         val = self.stub.get_value()
E         RuntimeError: The kernel LogAddExp unregistered.
E
E         -----
E         - C++ Call Stack: (For framework developers)
E         -----
E         mindspore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel

```

```
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/  
mindspore/common/_stub_tensor.py:159: RuntimeError
```

```
-----  
Captured stdout call  
-----
```

```
==== Environment Info ====
```

```
MindSpore version: 2.4.10
```

```
PyTorch version: 2.5.1
```

```
=====
```

```
-----  
test_logaddexp_function_grad  
-----
```

```
def test_logaddexp_function_grad():  
    """  
    (2c) 测试 logaddexp 对输入的梯度  
    """  
    print_env_info()  
    a = Tensor(np.random.randn(2, 2).astype(np.float32))  
    b = Tensor(np.random.randn(2, 2).astype(np.float32))  
    a.requires_grad = True  
    b.requires_grad = True  
  
    def forward_fn(x, y):  
        return logaddexp(x, y)  
  
    grad_op = ops.GradOperation(get_all=True)(forward_fn)  
>    grad_ms = grad_op(a, b)
```

```
13/test_logaddexp.py:122:
```

```
-----  
-----  
-----  
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/  
mindspore/ops/composite/base.py:394: in after_grad  
    return grad_(fn)(*args, **kwargs)
```

```

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/api.py:188: in wrapper
    results = fn(*arg, **kwargs)
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/ops/composite/base.py:379: in after_grad
    run_args = self._pynative_forward_run(fn, grad_, weights, *args,
        **kwargs)
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/ops/composite/base.py:421: in _pynative_forward_run
    _pynative_executor.end_graph(fn, output, *args, **kwargs)
- - - - -
- - - - -
- - - - -

self = <mindspore.common.api._PyNativeExecutor object at 0x101c4fa10
>, obj = <function test_logaddexp_function_grad.<locals>.
forward_fn at 0x12f828ea0>
output = <[RuntimeError('The kernel LogAddExp unregistered.\n\n
-----\n- C++ Call
...ore/ops/kernel/common/pyboost/pyboost_utils.cc:569
SelectKernel\n') raised in repr()] StubTensor object at 0
x12f8bdc10>
args = (Tensor(shape=[2, 2], dtype=Float32, value=
[[-2.21340045e-01,  1.27937269e+00],
 [-1.33804226e+00, -5.67663372e-01]]), Tensor(shape=[2, 2], dtype=
Float32, value=
[[-1.03579867e+00, -8.58256459e-01],
 [-1.60051131e+00,  4.18717802e-01]]))
kwargs = {}

def end_graph(self, obj, output, *args, **kwargs):
    """
    Clean resources after building forward and backward graph.

    Args:
        obj (Function/Cell): The function or cell instance.
        output (Tensor/tuple/list): Function or cell output
            object.
        args (tuple): Function or cell input arguments.

```

```

        kwargs (dict): keyword arguments.

    Return:
        None.
    """
>     self._executor.end_graph(obj, output, *args, *(kwargs.values
    ()))
E     RuntimeError: The kernel LogAddExp unregistered.
E
E     -----
E     - C++ Call Stack: (For framework developers)
E     -----
E     mindspore/ops/kernel/common/pyboost/pyboost_utils.cc:569
    SelectKernel

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/api.py:1452: RuntimeError
-----

    Captured stdout call
-----

==== Environment Info ====
MindSpore version: 2.4.10
PyTorch version: 2.5.1
=====

-----
test_logical_not_calculation_empty
-----

def test_logical_not_calculation_empty():
    """
    扩展：空张量
    """
    print_env_info()
    arr = np.array([], dtype=bool)
>     ms_out = logical_not(Tensor(arr))

```



```
13/test_logical_not.py:72:
```

```
- - - - -
- - - - -
- - - - -
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:249: in __init__
    _check_tensor_input(input_data, dtype, shape, init)
- - - - -
- - - - -
- - - - -
```

```
input_data = array([], dtype=bool), dtype = None, shape = None, init
= None
```

```
def _check_tensor_input(input_data=None, dtype=None, shape=None,
init=None):
    """Check the tensor input."""
    if input_data is not None and shape is not None:
        raise ValueError(f"When initializing a tensor with '
            input_data', 'shape' should be set to None."
            f"But got shape: {shape}.")

    if init is not None and (shape is None or dtype is None):
        raise ValueError("init, dtype and shape must have values
            at the same time.")

    if input_data is not None:
        if isinstance(input_data, np.ndarray) and input_data.
            ndim >= 1 and input_data.size == 0:
>         raise ValueError("input_data can not contain zero
dimension.")
E         ValueError: input_data can not contain zero
dimension.
```

```
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:4959: ValueError
```

```
-----
Captured stdout call
-----
```

```
===== Environment Info =====
```

```
MindSpore version: 2.4.10
```

```
PyTorch version: 2.5.1
```

```
=====
```

```
-----  
test_sigmoid_calculation_empty  
-----
```

```
def test_sigmoid_calculation_empty():  
    """  
    扩展：空张量输入  
    """  
    print_env_info()  
    arr = np.array([], dtype=np.float32)  
>    ms_out = sigmoid(Tensor(arr))
```

```
16/test_sigmoid.py:112:
```

```
- - - - -  
- - - - -  
- - - - -  
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/  
mindspore/common/tensor.py:249: in __init_  
    _check_tensor_input(input_data, dtype, shape, init)  
- - - - -  
- - - - -  
- - - - -
```

```
input_data = array([], dtype=float32), dtype = None, shape = None,  
init = None
```

```
def _check_tensor_input(input_data=None, dtype=None, shape=None,  
    init=None):  
    """Check the tensor input."""  
    if input_data is not None and shape is not None:  
        raise ValueError(f"When initializing a tensor with '  
            input_data', 'shape' should be set to None."
```

```
f"But got shape: {shape}.")

    if init is not None and (shape is None or dtype is None):
        raise ValueError("init, dtype and shape must have values
            at the same time.")

    if input_data is not None:
        if isinstance(input_data, np.ndarray) and input_data.
            ndim >= 1 and input_data.size == 0:
>         raise ValueError("input_data can not contain zero
dimension.")
E         ValueError: input_data can not contain zero
dimension.
```

```
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:4959: ValueError
```

```
-----
Captured stdout call
-----
```

```
==== Environment Info ====
MindSpore version: 2.4.10
PyTorch version: 2.5.1
=====
```

```
-----
test_sign_calculation_empty
-----
```

```
def test_sign_calculation_empty():
    """
    扩展：空张量
    """
    print_env_info()
    arr = np.array([], dtype=np.float32)
>    ms_res = sign(Tensor(arr))
```

```
16/test_sign.py:95:
```

```
- - - - -
- - - - -
- - - - -
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:249: in __init__
    _check_tensor_input(input_data, dtype, shape, init)
- - - - -
- - - - -
- - - - -

input_data = array([], dtype=float32), dtype = None, shape = None,
init = None

def _check_tensor_input(input_data=None, dtype=None, shape=None,
    init=None):
    """Check the tensor input."""
    if input_data is not None and shape is not None:
        raise ValueError(f"When initializing a tensor with '
            input_data', 'shape' should be set to None."
            f"But got shape: {shape}.")

    if init is not None and (shape is None or dtype is None):
        raise ValueError("init, dtype and shape must have values
            at the same time.")

    if input_data is not None:
        if isinstance(input_data, np.ndarray) and input_data.
            ndim >= 1 and input_data.size == 0:
>         raise ValueError("input_data can not contain zero
dimension.")
E         ValueError: input_data can not contain zero
dimension.

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:4959: ValueError
```

```
-----
Captured stdout call
-----
```

```
===== Environment Info =====
```

```
MindSpore version: 2.4.10
```

```
PyTorch version: 2.5.1
```

```
=====
```

```
-----
test_sin_calculation_empty
-----
```

```
def test_sin_calculation_empty():
    """
    扩展：空张量
    """
    print_env_info()
    arr = np.array([], dtype=np.float32)
>    ms_res = sin(Tensor(arr))
```

```
16/test_sin.py:89:
```

```
-----
-----
-----
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:249: in __init__
    _check_tensor_input(input_data, dtype, shape, init)
-----
-----
-----
```

```
input_data = array([], dtype=float32), dtype = None, shape = None,
init = None
```

```
def _check_tensor_input(input_data=None, dtype=None, shape=None,
init=None):
    """Check the tensor input."""
    if input_data is not None and shape is not None:
        raise ValueError(f"When initializing a tensor with '
            input_data', 'shape' should be set to None."
            f"But got shape: {shape}.")
```

```
        if init is not None and (shape is None or dtype is None):
            raise ValueError("init, dtype and shape must have values
                               at the same time.")

        if input_data is not None:
            if isinstance(input_data, np.ndarray) and input_data.
                ndim >= 1 and input_data.size == 0:
>             raise ValueError("input_data can not contain zero
dimension.")
E             ValueError: input_data can not contain zero
dimension.
```

```
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:4959: ValueError
```

```
-----
Captured stdout call
-----
```

```
==== Environment Info ====
MindSpore version: 2.4.10
PyTorch version: 2.5.1
=====
```

```
-----
test_sinc_calculation_empty
-----
```

```
def test_sinc_calculation_empty():
    """
    扩展：空张量 (0, )
    """
    print_env_info()
    arr = np.array([], dtype=np.float32)
>    ms_out = sinc(Tensor(arr))
```

```
16/test_sinc.py:92:
```

```
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- - - - -
- - - - -
/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:249: in __init__
    _check_tensor_input(input_data, dtype, shape, init)
- - - - -
- - - - -
- - - - -

input_data = array([], dtype=float32), dtype = None, shape = None,
init = None

def _check_tensor_input(input_data=None, dtype=None, shape=None,
    init=None):
    """Check the tensor input."""
    if input_data is not None and shape is not None:
        raise ValueError(f"When initializing a tensor with '
            input_data', 'shape' should be set to None."
            f"But got shape: {shape}.")

    if init is not None and (shape is None or dtype is None):
        raise ValueError("init, dtype and shape must have values
            at the same time.")

    if input_data is not None:
        if isinstance(input_data, np.ndarray) and input_data.
            ndim >= 1 and input_data.size == 0:
>         raise ValueError("input_data can not contain zero
dimension.")
E         ValueError: input_data can not contain zero
dimension.

/opt/homebrew/anaconda3/envs/Mindspore/lib/python3.11/site-packages/
mindspore/common/tensor.py:4959: ValueError
-----
Captured stdout call
-----
```

==== Environment Info ====

MindSpore version: 2.4.10

PyTorch version: 2.5.1

=====

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short test summary info

=====

FAILED 13/test_logaddexp.py::test_logaddexp_calculation_fixed_dtype

- RuntimeError: The kernel LogAddExp unregistered.

FAILED 13/test_logaddexp.py::test_logaddexp_calculation_random_dtype

- RuntimeError: The kernel LogAddExp unregistered.

FAILED 13/test_logaddexp.py::test_logaddexp_calculation_broadcast -

RuntimeError: The kernel LogAddExp unregistered.

FAILED 13/test_logaddexp.py::

test_logaddexp_nn_inference_compare_with_torch - RuntimeError:

The kernel LogAddExp unregistered.

FAILED 13/test_logaddexp.py::test_logaddexp_function_grad -

RuntimeError: The kernel LogAddExp unregistered.

FAILED 13/test_logical_not.py::test_logical_not_calculation_empty -

ValueError: input_data can not contain zero dimension.

FAILED 16/test_sigmoid.py::test_sigmoid_calculation_empty -

ValueError: input_data can not contain zero dimension.

FAILED 16/test_sign.py::test_sign_calculation_empty - ValueError:

input_data can not contain zero dimension.

FAILED 16/test_sin.py::test_sin_calculation_empty - ValueError:

input_data can not contain zero dimension.

FAILED 16/test_sinc.py::test_sinc_calculation_empty - ValueError:

input_data can not contain zero dimension.

=====

10 failed, 65 passed in 11.38s

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