Type Info

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\((pytorch-master)(docs)(source)(type_info.rst, line 1)

Unknown directive type "currentmodule".

.. currentmodule:: torch

The numerical properties of a :class: 'torch.dtype' can be accessed through either the :class: 'torch.finfo' or the :class: 'torch.finfo'.

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Unknown interpreted text role "class".

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Unknown interpreted text role "class".

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torch.finfo

A class: torch finfo is an object that represents the numerical properties of a floating point class: torch dtype, (i.e. torch float32, torch float64, torch float16, and torch bfloat16). This is similar to numpy finfo.

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A :class:'torch.finfo' provides the following attributes:

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| Name | Type | Description | |
|------------|-------|--|--|
| bits | int | The number of bits occupied by the type. | |
| eps | float | The smallest representable number such that 1.0 + eps != 1.0. | |
| max | float | The largest representable number. | |
| min | float | The smallest representable number (typically -max). | |
| tiny | float | The smallest positive normal number. See notes. | |
| resolution | float | The approximate decimal resolution of this type, i.e., 10**-precision. | |

Note

The constructor of class: torch.finfo' can be called without argument, in which case the class is created for the pytorch default dtype (as returned by :func: torch.get_default_dtype').

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resources\pytorch-master\docs\source\(pytorch-master)\(docs\) (source)\type_info.rst, line 34); backlink

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Note

tiny returns the smallest *normal* number, but there are smaller subnormal numbers. See https://en.wikipedia.org/wiki/Denormal_number for more information.

torch.iinfo

A :class: torch.iinfo' is an object that represents the numerical properties of a integer :class: torch.dtype' (i.e. torch.uint8, torch.int8, torch.int16, torch.int32, and torch.int64). This is similar to numpy.iinfo.

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A :class:'torch.iinfo' provides the following attributes:

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Unknown interpreted text role "class".

| Name | Type | Description |
|------|------|--|
| bits | int | The number of bits occupied by the type. |
| max | int | The largest representable number. |
| min | int | The smallest representable number. |