

tf.bitcast

```
bitcast(  
    input,  
    type,  
    name=None  
)
```

Defined in `tensorflow/python/ops/gen_array_ops.py`.

See the guide: [Tensor Transformations > Casting](#)

Bitcasts a tensor from one type to another without copying data.

Given a tensor `input`, this operation returns a tensor that has the same buffer data as `input` with datatype `type`.

If the input datatype `T` is larger than the output datatype `type` then the shape changes from [...] to [..., sizeof(`T`)/sizeof(`type`)].

If `T` is smaller than `type`, the operator requires that the rightmost dimension be equal to sizeof(`type`)/sizeof(`T`). The shape then goes from [..., sizeof(`type`)/sizeof(`T`)] to [...].

NOTE: Bitcast is implemented as a low-level cast, so machines with different endian orderings will give different results.

Args:

- `input`: A `Tensor`. Must be one of the following types: `float32`, `float64`, `int64`, `int32`, `uint8`, `uint16`, `int8`, `int16`, `complex64`, `complex128`, `qint8`, `quint8`, `qint16`, `quint16`, `qint32`, `half`.
- `type`: A `tf.DType` from: `tf.float32`, `tf.float64`, `tf.int64`, `tf.int32`, `tf.uint8`, `tf.uint16`, `tf.int8`, `tf.int16`, `tf.complex64`, `tf.complex128`, `tf.qint8`, `tf.quint8`, `tf.qint16`, `tf.quint16`, `tf.qint32`, `tf.half`.
- `name`: A name for the operation (optional).

Returns:

A `Tensor` of type `type`.

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