tf.spectral.dct

```
dct(
    input,
    type=2,
    n=None,
    axis=-1,
    norm=None,
    name=None
)
```

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

See the guide: Spectral Functions > Discrete Cosine Transforms

Computes the 1D Discrete Cosine Transform (DCT) of `input`.

Currently only Type II is supported. Implemented using a length `2N` padded `tf.spectral.rfft`, as described here: https://dsp.stackexchange.com/a/10606

Args:

- `input`: A `[..., samples] float32 Tensor` containing the signals to take the DCT of.
- `type`: The DCT type to perform. Must be 2.
- `n`: For future expansion. The length of the transform. Must be `None`.
- `axis`: For future expansion. The axis to compute the DCT along. Must be `-1`.
- `norm`: The normalization to apply. `None` for no normalization or `'ortho'` for orthonormal normalization.
- `name`: An optional name for the operation.

Returns:

A `[..., samples] float32 Tensor` containing the DCT of `input`.

Raises:

- `ValueError`: If `type` is not `2`, `n` is not `None`, axis `is not` -1 `, or` norm `is not` None `or` 'ortho'`.

scipy compatibility

Equivalent to scipy.fftpack.dct for the Type-II DCT. https://docs.scipy.org/doc/scipy-0.14.0/reference/generated/scipy.fftpack.dct.html

Stay Connected

Blog

GitHub

Twitter

Support

Issue Tracker

Release Notes

Stack Overflow

English

Terms | **Privacy**