TancarFlow

TensorFlow API r1.4

tf.spectral.irfft3d

```
irfft3d(
   input_tensor,
   fft_length=None,
   name=None
)
```

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

See the guide: Spectral Functions > Discrete Fourier Transforms

Inverse 3D real-valued fast Fourier transform.

Computes the inverse 3-dimensional discrete Fourier transform of a real-valued signal over the inner-most 3 dimensions of **input** .

The inner-most 3 dimensions of <code>input</code> are assumed to be the result of <code>RFFT3D</code>: The inner-most dimension contains the <code>fft_length / 2 + 1</code> unique components of the DFT of a real-valued signal. If <code>fft_length</code> is not provided, it is computed from the size of the inner-most 3 dimensions of <code>input</code>. If the FFT length used to compute <code>input</code> is odd, it should be provided since it cannot be inferred properly.

Along each axis IRFFT3D is computed on, if fft_length (or fft_length / 2 + 1 for the inner-most dimension) is smaller than the corresponding dimension of input, the dimension is cropped. If it is larger, the dimension is padded with zeros.

Args:

- input: A Tensor of type complex64. A complex64 tensor.
- fft_length: A Tensor of type int32. An int32 tensor of shape [3]. The FFT length for each dimension.
- name: A name for the operation (optional).

Returns:

A **Tensor** of type **float32**. A float32 tensor of the same rank as **input**. The inner-most 3 dimensions of **input** are replaced with the **fft_length** samples of their inverse 3D real Fourier transform.

numpy compatibility

Equivalent to np.irfftn with 3 dimensions.

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