TensorFlow   API r1.4

tf.nn.conv3d_backprop_filter_v2

```
conv3d_backprop_filter_v2(
    input,
    filter_sizes,
    out_backprop,
    strides,
    padding,
    data_format='NDHWC',
    name=None
)
```

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

See the guide: Neural Network > Convolution

Computes the gradients of 3-D convolution with respect to the filter.

Args:

- `input` : A `Tensor` . Must be one of the following types: `float32` , `float64` . Shape `[batch, depth, rows, cols, in_channels]` .
- `filter_sizes` : A `Tensor` of type `int32` . An integer vector representing the tensor shape of `filter` , where `filter` is a 5-D `[filter_depth, filter_height, filter_width, in_channels, out_channels]` tensor.
- `out_backprop` : A `Tensor` . Must have the same type as `input` . Backprop signal of shape `[batch, out_depth, out_rows, out_cols, out_channels]` .
- `strides` : A list of `ints` that has length `>= 5` . 1-D tensor of length 5. The stride of the sliding window for each dimension of `input` . Must have `strides[0] = strides[4] = 1` .
- `padding` : A `string` from: `"SAME", "VALID"` . The type of padding algorithm to use.
- `data_format` : An optional `string` from: `"NDHWC", "NCDHW"` . Defaults to `"NDHWC"` . The data format of the input and output data. With the default format "NDHWC", the data is stored in the order of: [batch, in_depth, in_height, in_width, in_channels]. Alternatively, the format could be "NCDHW", the data storage order is: [batch, in_channels, in_depth, in_height, in_width].
- `name` : A name for the operation (optional).

Returns:

A `Tensor` . Has the same type as `input` .

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