

tf.required_space_to_batch_paddings

```
required_space_to_batch_paddings(  
    input_shape,  
    block_shape,  
    base_paddings=None,  
    name=None  
)
```

Defined in [tensorflow/python/ops/array_ops.py](#).

See the guide: [Tensor Transformations > Slicing and Joining](#)

Calculate padding required to make block_shape divide input_shape.

This function can be used to calculate a suitable paddings argument for use with space_to_batch_nd and batch_to_space_nd.

Args:

- **input_shape** : int32 Tensor of shape [N].
- **block_shape** : int32 Tensor of shape [N].
- **base_paddings** : Optional int32 Tensor of shape [N, 2]. Specifies the minimum amount of padding to use. All elements must be ≥ 0 . If not specified, defaults to 0.
- **name** : string. Optional name prefix.

Returns:

(paddings, crops), where:

paddings and **crops** are int32 Tensors of rank 2 and shape [N, 2] * **satisfying** : $\text{paddings}[i, 0] = \text{base_paddings}[i, 0]$. $0 \leq \text{paddings}[i, 1] - \text{base_paddings}[i, 1] < \text{block_shape}[i]$ ($\text{input_shape}[i] + \text{paddings}[i, 0] + \text{paddings}[i, 1] \% \text{block_shape}[i] == 0$)

```
crops[i, 0] = 0  
crops[i, 1] = paddings[i, 1] - base_paddings[i, 1]
```

Raises: ValueError if called with incompatible shapes.

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Last updated November 2, 2017.

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