

## tf.nn.quantized\_max\_pool

```
quantized_max_pool(  
    input,  
    min_input,  
    max_input,  
    ksize,  
    strides,  
    padding,  
    name=None  
)
```

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

See the guide: [Neural Network > Candidate Sampling](#)

Produces the max pool of the input tensor for quantized types.

## Args:

- `input`: A **Tensor**. Must be one of the following types: `qint8`, `quint8`, `qint16`, `quint16`, `qint32`. The 4D (batch x rows x cols x depth) Tensor to MaxReduce over.
- `min_input`: A **Tensor** of type `float32`. The float value that the lowest quantized input value represents.
- `max_input`: A **Tensor** of type `float32`. The float value that the highest quantized input value represents.
- `ksize`: A list of `ints`. The size of the window for each dimension of the input tensor. The length must be 4 to match the number of dimensions of the input.
- `strides`: A list of `ints`. The stride of the sliding window for each dimension of the input tensor. The length must be 4 to match the number of dimensions of the input.
- `padding`: A **string** from: `"SAME"`, `"VALID"`. The type of padding algorithm to use.
- `name`: A name for the operation (optional).

## Returns:

A tuple of **Tensor** objects (output, min\_output, max\_output).

- `output`: A **Tensor**. Has the same type as `input`.
- `min_output`: A **Tensor** of type `float32`. The float value that the lowest quantized output value represents.
- `max_output`: A **Tensor** of type `float32`. The float value that the highest quantized output value represents.

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