

tf.fake_quant_with_min_max_args

```
fake_quant_with_min_max_args(  
    inputs,  
    min=-6,  
    max=6,  
    num_bits=8,  
    narrow_range=False,  
    name=None  
)
```

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

See the guide: [Tensor Transformations > Fake quantization](#)

Fake-quantize the 'inputs' tensor, type float to 'outputs' tensor of same type.

Attributes `[min; max]` define the clamping range for the `inputs` data. `inputs` values are quantized into the quantization range (`[0; 2num_bits - 1]` when `narrow_range` is false and `[1; 2num_bits - 1]` when it is true) and then de-quantized and output as floats in `[min; max]` interval. `num_bits` is the bitwidth of the quantization; between 2 and 8, inclusive.

Quantization is called fake since the output is still in floating point.

Args:

- `inputs`: A **Tensor** of type `float32`.
- `min`: An optional `float`. Defaults to `-6`.
- `max`: An optional `float`. Defaults to `6`.
- `num_bits`: An optional `int`. Defaults to `8`.
- `narrow_range`: An optional `bool`. Defaults to `False`.
- `name`: A name for the operation (optional).

Returns:

A **Tensor** of type `float32`.

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