

tf.nn.batch_norm_with_global_normalization

```
batch_norm_with_global_normalization(  
    t,  
    m,  
    v,  
    beta,  
    gamma,  
    variance_epsilon,  
    scale_after_normalization,  
    name=None  
)
```

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

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

Batch normalization.

This op is deprecated. See [tf.nn.batch_normalization](#).

Args:

- **t** : A 4D input Tensor.
- **m** : A 1D mean Tensor with size matching the last dimension of t. This is the first output from tf.nn.moments, or a saved moving average thereof.
- **v** : A 1D variance Tensor with size matching the last dimension of t. This is the second output from tf.nn.moments, or a saved moving average thereof.
- **beta** : A 1D beta Tensor with size matching the last dimension of t. An offset to be added to the normalized tensor.
- **gamma** : A 1D gamma Tensor with size matching the last dimension of t. If "scale_after_normalization" is true, this tensor will be multiplied with the normalized tensor.
- **variance_epsilon** : A small float number to avoid dividing by 0.
- **scale_after_normalization** : A bool indicating whether the resulted tensor needs to be multiplied with gamma.
- **name** : A name for this operation (optional).

Returns:

A batch-normalized **t**.

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Last updated November 2, 2017.

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