

tf.contrib.bayesflow.csiszar_divergence.jeffreys

```
jeffreys(  
    logu,  
    name=None  
)
```

Defined in [tensorflow/contrib/bayesflow/python/ops/csiszar_divergence_impl.py](#).

The Jeffreys Csiszar-function in log-space.


A Csiszar-function is a member of,

$$F = \{ f: \mathbb{R}_+ \rightarrow \mathbb{R} : f \text{ convex} \}.$$

The Jeffreys Csiszar-function is:

```
f(u) = 0.5 ( u log(u) - log(u) )  
      = 0.5 kl_forward + 0.5 kl_reverse  
      = symmetrized_csiszar_function(kl_reverse)  
      = symmetrized_csiszar_function(kl_forward)
```

This Csiszar-function induces a symmetric f-Divergence, i.e., $D_f[p, q] = D_f[q, p]$.

 **Warning:** this function makes non-log-space calculations and may therefore be numerically unstable for $|\log u| \gg 0$.

Args:

- `logu`: `float`-like `Tensor` representing `log(u)` from above.
- `name`: Python `str` name prefixed to Ops created by this function.

Returns:

- `jeffreys_of_u`: `float`-like `Tensor` of the Csiszar-function evaluated at `u = exp(logu)`.

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