tf.contrib.bayesflow.csiszar_divergence.t_power

```
t_power(
    logu,
    t,
    self_normalized=False,
    name=None
)
```

Defined in `tensorflow/contrib/bayesflow/python/ops/csiszar_divergence_impl.py`.

The T-Power Csiszar-function in log-space.

A Csiszar-function is a member of,

```
F = { f:R_+ to R : f convex }.
```

When `self_normalized = True` the T-Power Csiszar-function is:

```
f(u) = s [ u**t - 1 - t(u - 1) ]
s = { -1   0 < t < 1
    { +1   otherwise
```

When `self_normalized = False` the `- t(u - 1)` term is omitted.

This is similar to the `amari_alpha` Csiszar-function, with the associated divergence being the same up to factors depending only on `t`.

Args:

- `logu`: `float`-like `Tensor` representing `log(u)` from above.
- `t`: `Tensor` of same `dtype` as `logu` and broadcastable shape.
- `self_normalized`: Python `bool` indicating whether `f'(u=1)=0`.
- `name`: Python `str` name prefixed to Ops created by this function.

Returns:

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

Last updated November 2, 2017.

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