

tf.contrib.distributions.softplus_inverse

```
softplus_inverse(  
    x,  
    name=None  
)
```

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

See the guide: [Statistical Distributions \(contrib\) > Utilities](#)

Computes the inverse softplus, i.e., $x = \text{softplus_inverse}(\text{softplus}(x))$.

Mathematically this op is equivalent to:

```
softplus_inverse = log(exp(x) + 1.)
```

Args:

- **x**: **Tensor**. Non-negative (not enforced), floating-point.
- **name**: A name for the operation (optional).

Returns:

Tensor. Has the same type/shape as input **x**.

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