tf.contrib.seq2seq.safe_cumprod

```
safe_cumprod(
    x,
    *args,
    **kwargs
)
```

Defined in `tensorflow/contrib/seq2seq/python/ops/attention_wrapper.py`.

Computes cumprod of x in logspace using cumsum to avoid underflow.

The cumprod function and its gradient can result in numerical instabilities when its argument has very small and/or zero values. As long as the argument is all positive, we can instead compute the cumulative product as exp(cumsum(log(x))). This function can be called identically to tf.cumprod.

Args:

- `x`: Tensor to take the cumulative product of.
- `*args`: Passed on to cumsum; these are identical to those in cumprod.
- `**kwargs`: Passed on to cumsum; these are identical to those in cumprod.

Returns:

Cumulative product of x.

Last updated November 2, 2017.