

tf.contrib.seq2seq.gather_tree

```
gather_tree(  
    step_ids,  
    parent_ids,  
    sequence_length,  
    name=None  
)
```

Defined in `tensorflow/contrib/seq2seq/ops/gen_beam_search_ops.py`.

Calculates the full beams from the per-step ids and parent beam ids.

This op implements the following mathematical equations:

```
TODO(ebrevdo): fill in
```

Args:

- `step_ids`: A `Tensor`. Must be one of the following types: `int32`. `[max_time, batch_size, beam_width]`.
- `parent_ids`: A `Tensor`. Must have the same type as `step_ids`. `[max_time, batch_size, beam_width]`.
- `sequence_length`: A `Tensor`. Must have the same type as `step_ids`. `[batch_size, beam_width]`.
- `name`: A name for the operation (optional).

Returns:

A `Tensor`. Has the same type as `step_ids`. `[max_time, batch_size, beam_width]`.

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Last updated November 2, 2017.

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