tf.train.slice_input_producer

```
slice_input_producer(
    tensor_list,
    num_epochs=None,
    shuffle=True,
    seed=None,
    capacity=32,
    shared_name=None,
    name=None
)
```

Defined in `tensorflow/python/training/input.py`.

See the guides: Inputs and Readers > Input pipeline, Reading data > Preloaded data

Produces a slice of each `Tensor` in `tensor_list`.

Implemented using a Queue – a `QueueRunner` for the Queue is added to the current `Graph`'s `QUEUE_RUNNER` collection.

Args:

- `tensor_list`: A list of `Tensor` objects. Every `Tensor` in `tensor_list` must have the same size in the first dimension.
- `num_epochs`: An integer (optional). If specified, `slice_input_producer` produces each slice `num_epochs` times before generating an `OutOfRange` error. If not specified, `slice_input_producer` can cycle through the slices an unlimited number of times.
- `shuffle`: Boolean. If true, the integers are randomly shuffled within each epoch.
- `seed`: An integer (optional). Seed used if shuffle == True.
- `capacity`: An integer. Sets the queue capacity.
- `shared_name`: (optional). If set, this queue will be shared under the given name across multiple sessions.
- `name`: A name for the operations (optional).

Returns:

A list of tensors, one for each element of `tensor_list`. If the tensor in `tensor_list` has shape `[N, a, b, .., z]`, then the corresponding output tensor will have shape `[a, b, ..., z]`.

Raises:

- `ValueError`: if `slice_input_producer` produces nothing from `tensor_list`.

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