tf.LMDBReader

Contents

Class `LMDBReader`

Inherits From: `ReaderBase`

Defined in `tensorflow/python/ops/io_ops.py`.

A Reader that outputs the records from a LMDB file.

See ReaderBase for supported methods.

Properties

`reader_ref`

Op that implements the reader.

`supports_serialize`

Whether the Reader implementation can serialize its state.

Methods

`__init__`

```
__init__(
    name=None,
    options=None
)
```

Create a LMDBReader.

Args:

- `name`: A name for the operation (optional).
- `options`: A LMDBRecordOptions object (optional).

num_records_produced

```
num_records_produced(name=None)
```

Returns the number of records this reader has produced.

This is the same as the number of Read executions that have succeeded.

Args:

- `name`: A name for the operation (optional).

Returns:

An int64 Tensor.

num_work_units_completed

```
num_work_units_completed(name=None)
```

Returns the number of work units this reader has finished processing.

Args:

- `name`: A name for the operation (optional).

Returns:

An int64 Tensor.

read

```
read(
    queue,
    name=None
)
```

Returns the next record (key, value) pair produced by a reader.

Will dequeue a work unit from queue if necessary (e.g. when the Reader needs to start reading from a new file since it has finished with the previous file).

Args:

- `queue`: A Queue or a mutable string Tensor representing a handle to a Queue, with string work items.
- `name`: A name for the operation (optional).

Returns:

A tuple of Tensors (key, value). `key`: *A string scalar Tensor.* `value`: A string scalar Tensor.

`read_up_to`

```
read_up_to(
    queue,
    num_records,
    name=None
)
```

Returns up to num_records (key, value) pairs produced by a reader.

Will dequeue a work unit from queue if necessary (e.g., when the Reader needs to start reading from a new file since it has finished with the previous file). It may return less than num_records even before the last batch.

Args:

- `queue`: A Queue or a mutable string Tensor representing a handle to a Queue, with string work items.
- `num_records`: Number of records to read.
- `name`: A name for the operation (optional).

Returns:

A tuple of Tensors (keys, values). `keys`: *A 1-D string Tensor.* `values`: A 1-D string Tensor.

`reset`

```
reset(name=None)
```

Restore a reader to its initial clean state.

Args:

- `name`: A name for the operation (optional).

Returns:

The created Operation.

`restore_state`

```
restore_state(
    state,
    name=None
)
```

Restore a reader to a previously saved state.

Not all Readers support being restored, so this can produce an Unimplemented error.

Args:

- `state`: A string Tensor. Result of a SerializeState of a Reader with matching type.
- `name`: A name for the operation (optional).

Returns:

The created Operation.

`serialize_state`

```
serialize_state(name=None)
```

Produce a string tensor that encodes the state of a reader.

Not all Readers support being serialized, so this can produce an Unimplemented error.

Args:

- `name`: A name for the operation (optional).

Returns:

A string Tensor.
