

tf.contrib.lookup.HashTable

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Inherits From: [InitializableLookupTableBase](#)

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

A generic hash table implementation.

Example usage:

```
table = tf.HashTable(
    tf.KeyValueTensorInitializer(keys, values), -1)
out = table.lookup(input_tensor)
table.init.run()
print(out.eval())
```

Properties

default_value

The default value of the table.

init

The table initialization op.

key_dtype

The table key dtype.

name

The name of the table.

table_ref

Get the underlying table reference.

value_dtype

The table value dtype.

Methods

`--init--`

```
--init__(
    initializer,
    default_value,
    shared_name=None,
    name=None
)
```

Creates a non-initialized **HashTable** object.

Creates a table, the type of its keys and values are specified by the initializer. Before using the table you will have to initialize it. After initialization the table will be immutable.

Args:

- **initializer** : The table initializer to use. See **HashTable** kernel for supported key and value types.
- **default_value** : The value to use if a key is missing in the table.
- **shared_name** : If non-empty, this table will be shared under the given name across multiple sessions.
- **name** : A name for the operation (optional).

Returns:

A **HashTable** object.

lookup

```
lookup(
    keys,
    name=None
)
```

Looks up **keys** in a table, outputs the corresponding values.

The **default_value** is used for keys not present in the table.

Args:

- **keys** : Keys to look up. May be either a **SparseTensor** or dense **Tensor** .
- **name** : A name for the operation (optional).

Returns:

A **SparseTensor** if keys are sparse, otherwise a dense **Tensor** .

Raises:

- `TypeError` : when `keys` or `default_value` doesn't match the table data types.

size

```
size(name=None)
```

Compute the number of elements in this table.

Args:

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

Returns:

A scalar tensor containing the number of elements in this table.

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