NAME

mtbl_source − obtain key−value entries from a data source

SYNOPSIS

```
#include <mtbl.h>

struct mtbl_iter *
mtbl_source_iter(const struct mtbl_source *s);

struct mtbl_iter *
mtbl_source_get(const struct mtbl_source *s, const uint8_t *key, size_t len_key);

struct mtbl_iter *
mtbl_source_get_prefix(
    const struct mtbl_source *s,
    const uint8_t *prefix, size_t len_prefix);

struct mtbl_iter *
mtbl_source_get_range(
    const struct mtbl_source *s,
    const uint8_t *key0, size_t len_key0,
    const uint8_t *key1, size_t len_key1);

mtbl_res
mtbl_source_write(const struct mtbl_source *s, struct mtbl_writer *w);

void
mtbl_source_destroy(struct mtbl_source **s);
```

DESCRIPTION

The **mtbl_source** iterface provides an abstraction for reading key−value entries from mtbl data sources.

mtbl_source_iter() provides an iterator over all of the entries in the data source.

mtbl_source_get() provides an exact match iterator which returns all entries whose key matches the key provided in the arguments *key* and *len_key*.

mtbl_source_get_prefix() provides a prefix iterator which returns all entries whose keys start with *prefix* and are at least *len_prefix* bytes long.

mtbl_source_get_range() provides a range iterator which returns all entries whose keys are between *key0* and *key1* inclusive.

mtbl_source_write() is a convenience function for reading all of the entries from a source and writing them to an **mtbl_writer** object. It is equivalent to calling **mtbl_writer_add**() on all of the entries returned from **mtbl_source_iter**().

RETURN VALUE

mtbl_source_iter(), **mtbl_source_get**(), **mtbl_source_get_prefix**(), and **mtbl_source_get_range**() return **mtbl_iter** objects.

mtbl_source_write() returns **mtbl_res_success** if all of the entries in the data source were successfully written to the **mtbl_writer** argument, and **mtbl_res_failure** otherwise.

SEE ALSO

mtbl_iter(3)