sd_journal_enumerate_fields

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systemd

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SD_JOURNAL_FOREACH_FIELD

Read used field names from the journal

#include <systemd/sd-journal.h>

int

sd_journal_enumerate_fields

sd_journal *

j

const char **

field

void

sd_journal_restart_fields

sd_journal *

j

SD_JOURNAL_FOREACH_FIELD

sd_journal *

j

const char *

field

Description

`sd_journal_enumerate_fields()` may be used to iterate through all field names used in the opened journal files. On each invocation the next field name is returned. The order of the returned field names is not defined. It takes two arguments: the journal context object, plus a pointer to a constant string pointer where the field name is stored in. The returned data is in a read-only memory map and is only valid until the next invocation of `sd_journal_enumerate_fields()`. Note that this call is subject to the data field size threshold as controlled by `sd_journal_set_data_threshold()`.

`sd_journal_restart_fields()` resets the field name enumeration index to the beginning of the list. The next invocation of `sd_journal_enumerate_fields()` will return the first field name again.

The `SD_JOURNAL_FOREACH_FIELD()` macro may be used as a handy wrapper around `sd_journal_restart_fields()` and `sd_journal_enumerate_fields()`.

These functions currently are not influenced by matches set with `sd_journal_add_match()` but this might change in a later version of this software.

To retrieve the possible values a specific field can take use `sd_journal_query_unique(3)`.

Return Value

`sd_journal_enumerate_fields()` returns a positive integer if the next field name has been read, 0 when no more field names are known, or a negative errno-style error code.
`sd_journal_restart_fields()` returns nothing.

Notes

Examples

Use the `SD_JOURNAL_FOREACH_FIELD()` macro to iterate through all field names in use in the current journal.

History

`sd_journal_enumerate_fields()`, `sd_journal_restart_fields()`, and `SD_JOURNAL_FOREACH_FIELD()` were added in version 229.

See Also

`systemd(1)`, `systemd.journal-fields(7)`, `sd-journal(3)`, `sd_journal_open(3)`, `sd_journal_query_unique(3)`, `sd_journal_get_data(3)`, `sd_journal_add_match(3)`

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