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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'posix_trace_eventset_add.3p' command

$ man posix_trace_eventset_add.3p

POSIX_TRACE_EVENTSET_ADD(3PPOSIX Programmer's ManuPOSIX_TRACE_EVENTSET_ADD(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

posix_trace_eventset_add, posix_trace_eventset_del, posix_trace_eventset_empty, posix_trace_eventset_fill, posix_trace_eventset_ismember ? manipulate trace event type sets (TRAC? ING)

SYNOPSIS

```
#include <trace.h>
int posix_trace_eventset_add(trace_event_id_t event_id,
    trace_event_set_t *set);
int posix_trace_eventset_del(trace_event_id_t event_id,
    trace_event_set_t *set);
int posix_trace_eventset_empty(trace_event_set_t *set);
int posix_trace_eventset_fill(trace_event_set_t *set, int what);
int posix_trace_eventset_ismember(trace_event_id_t event_id,
    const trace_event_set_t *restrict set, int *restrict ismember);
```

DESCRIPTION

These primitives manipulate sets of trace event types. They operate on

data objects addressable by the application, not on the current trace event filter of any trace stream.

The posix_trace_eventset_add() and posix_trace_eventset_del() functions, respectively, shall add or delete the individual trace event type specified by the value of the argument event_id to or from the trace event type set pointed to by the argument set. Adding a trace event type already in the set or deleting a trace event type not in the set shall not be considered an error.

The posix_trace_eventset_empty() function shall initialize the trace event type set pointed to by the set argument such that all trace event types defined, both system and user, shall be excluded from the set.

The posix_trace_eventset_fill() function shall initialize the trace event type set pointed to by the argument set, such that the set of trace event types defined by the argument what shall be included in the set. The value of the argument what shall consist of one of the following values, as defined in the <trace.h> header:

POSIX_TRACE_WOPID_EVENTS

All the process-independent implementation-defined system trace event types are included in the set.

POSIX_TRACE_SYSTEM_EVENTS

All the implementation-defined system trace event types are included in the set, as are those defined in POSIX.1?2008.

POSIX_TRACE_ALL_EVENTS

All trace event types defined, both system and user, are included in the set.

Applications shall call either posix_trace_eventset_empty() or posix_trace_eventset_fill() at least once for each object of type trace_event_set_t prior to any other use of that object. If such an object is not initialized in this way, but is nonetheless supplied as an argument to any of the posix_trace_eventset_add(), posix_trace_eventset_del(), or posix_trace_eventset_ismember() functions, the results are undefined.

The posix_trace_eventset_ismember() function shall test whether the

trace event type specified by the value of the argument event_id is a member of the set pointed to by the argument set. The value returned in the object pointed to by ismember argument is zero if the trace event type identifier is not a member of the set and a value different from zero if it is a member of the set.

RETURN VALUE

Upon successful completion, these functions shall return a value of zero. Otherwise, they shall return the corresponding error number.

ERRORS

These functions may fail if:

EINVAL The value of one of the arguments is invalid.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

The posix_trace_eventset_add(), posix_trace_eventset_del(), posix_trace_eventset_empty(), posix_trace_eventset_fill(), and posix_trace_eventset_ismember() functions may be removed in a future version.

SEE ALSO

posix_trace_eventid_equal(), posix_trace_get_filter()

The Base Definitions volume of POSIX.1?2017, <trace.h>