



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

\$ man posix_trace_clear.3p

POSIX_TRACE_CLEAR(3P) POSIX Programmer's Manual POSIX_TRACE_CLEAR(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_clear ? clear trace stream and trace log (TRACING)

SYNOPSIS

```
#include <sys/types.h>
#include <trace.h>
int posix_trace_clear(trace_id_t trid);
```

DESCRIPTION

The `posix_trace_clear()` function shall reinitialize the trace stream identified by the argument `trid` as if it were returning from the `posix_trace_create()` function, except that the same allocated resources shall be reused, the mapping of trace event type identifiers to trace event names shall be unchanged, and the trace stream status shall remain unchanged (that is, if it was running, it remains running and if it was suspended, it remains suspended).

All trace events in the trace stream recorded before the call to `posix_trace_clear()` shall be lost. The `posix_stream_full_status` status shall be set to `POSIX_TRACE_NOT_FULL`. There is no guarantee that all

trace events that occurred during the `posix_trace_clear()` call are recorded; the behavior with respect to trace points that may occur during this call is unspecified.

If the Trace Log option is supported and the trace stream has been created with a log, the `posix_trace_clear()` function shall reinitialize the trace stream with the same behavior as if the trace stream was created without the log, plus it shall reinitialize the trace log associated with the trace stream identified by the argument `trid` as if it were returning from the `posix_trace_create_withlog()` function, except that the same allocated resources, for the trace log, may be reused and the associated trace stream status remains unchanged. The first trace event recorded in the trace log after the call to `posix_trace_clear()` shall be the same as the first trace event recorded in the active trace stream after the call to `posix_trace_clear()`. The `posix_log_full_status` status shall be set to `POSIX_TRACE_NOT_FULL`. There is no guarantee that all trace events that occurred during the `posix_trace_clear()` call are recorded in the trace log; the behavior with respect to trace points that may occur during this call is unspecified. If the log full policy is `POSIX_TRACE_APPEND`, the effect of a call to this function is unspecified for the trace log associated with the trace stream identified by the `trid` argument.

RETURN VALUE

Upon successful completion, the `posix_trace_clear()` function shall return a value of zero. Otherwise, it shall return the corresponding error number.

ERRORS

The `posix_trace_clear()` function shall fail if:

EINVAL The value of the `trid` argument does not correspond to an active trace stream.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

The `posix_trace_clear()` function may be removed in a future version.

SEE ALSO

`posix_trace_attr_destroy()`, `posix_trace_create()`,

`posix_trace_get_attr()`

The Base Definitions volume of POSIX.1-2017, `<sys_types.h>`, `<trace.h>`

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