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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'posix\_trace\_attr\_getclockres.3p' command**

**\$ man posix\_trace\_attr\_getclockres.3p**

POSIX\_TRACE\_ATTR\_GETCLOCKREPOSIX Programmer's POSIX\_TRACE\_ATTR\_GETCLOCKRES(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\_attr\_getclockres,      posix\_trace\_attr\_getcreatetime,  
posix\_trace\_attr\_getgenversion,      posix\_trace\_attr\_getname,  
posix\_trace\_attr\_setname ? retrieve and set information about a trace stream (TRACING)

### SYNOPSIS

```
#include <time.h>
#include <trace.h>
int posix_trace_attr_getclockres(const trace_attr_t *attr,
    struct timespec *resolution);
int posix_trace_attr_getcreatetime(const trace_attr_t *attr,
    struct timespec *createtime);
#include <trace.h>
int posix_trace_attr_getgenversion(const trace_attr_t *attr,
    char *genversion);
int posix_trace_attr_getname(const trace_attr_t *attr,
    char *tracename);
```

```
int posix_trace_attr_setname(trace_attr_t *attr,  
    const char *tracename);
```

## DESCRIPTION

The `posix_trace_attr_getclockres()` function shall copy the clock resolution of the clock used to generate timestamps from the `clock-resolution` attribute of the attributes object pointed to by the `attr` argument into the structure pointed to by the `resolution` argument.

The `posix_trace_attr_getcreatetime()` function shall copy the trace stream creation time from the `creation-time` attribute of the attributes object pointed to by the `attr` argument into the structure pointed to by the `createtime` argument. The `creation-time` attribute shall represent the time of creation of the trace stream.

The `posix_trace_attr_getgenversion()` function shall copy the string containing version information from the `generation-version` attribute of the attributes object pointed to by the `attr` argument into the string pointed to by the `genversion` argument. The `genversion` argument shall be the address of a character array which can store at least `{TRACE_NAME_MAX}` characters.

The `posix_trace_attr_getname()` function shall copy the string containing the trace name from the `trace-name` attribute of the attributes object pointed to by the `attr` argument into the string pointed to by the `tracename` argument. The `tracename` argument shall be the address of a character array which can store at least `{TRACE_NAME_MAX}` characters.

The `posix_trace_attr_setname()` function shall set the name in the `trace-name` attribute of the attributes object pointed to by the `attr` argument, using the trace name string supplied by the `tracename` argument. If the supplied string contains more than `{TRACE_NAME_MAX}` characters, the name copied into the `trace-name` attribute may be truncated to one less than the length of `{TRACE_NAME_MAX}` characters. The default value is a null string.

## RETURN VALUE

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

If successful, the `posix_trace_attr_getclockres()` function stores the clock-resolution attribute value in the object pointed to by `resolu?` tion. Otherwise, the content of this object is unspecified.

If successful, the `posix_trace_attr_getcreatetime()` function stores the trace stream creation time in the object pointed to by `createtime`. Otherwise, the content of this object is unspecified.

If successful, the `posix_trace_attr_getgenversion()` function stores the trace version information in the string pointed to by `genversion`. Otherwise, the content of this string is unspecified.

If successful, the `posix_trace_attr_getname()` function stores the trace name in the string pointed to by `tracename`. Otherwise, the content of this string is unspecified.

## ERRORS

The `posix_trace_attr_getclockres()`, `posix_trace_attr_getcreatetime()`, `posix_trace_attr_getgenversion()`, and `posix_trace_attr_getname()` functions may fail if:

**EINVAL** The value specified by one of the arguments is invalid.

The following sections are informative.

## EXAMPLES

None.

## APPLICATION USAGE

None.

## RATIONALE

None.

## FUTURE DIRECTIONS

The `posix_trace_attr_getclockres()`, `posix_trace_attr_getcreatetime()`, `posix_trace_attr_getgenversion()`, `posix_trace_attr_getname()`, and `posix_trace_attr_setname()` functions may be removed in a future version.

## SEE ALSO

`posix_trace_attr_destroy()`, `posix_trace_create()`,  
`posix_trace_get_attr()`, `uname()`

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

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