



Rocky Enterprise Linux 9.2 Manual Pages on command 's390_runtime_instr.2'

C:\>man s390_runtime_instr.2

S390_RUNTIME_INSTR(2) System Calls Manual S390_RUNTIME_INSTR(2)

NAME

s390_runtime_instr - enable/disable s390 CPU run-time instrumentation

SYNOPSIS

```
#include <asm/runtime_instr.h>
```

```
int s390_runtime_instr(int command, int signum);
```

DESCRIPTION

The `s390_runtime_instr()` system call starts or stops CPU run-time instrumentation for the calling thread.

The command argument controls whether run-time instrumentation is started (`S390_RUNTIME_INSTR_START`, 1) or stopped (`S390_RUNTIME_INSTR_STOP`, 2) for the calling thread.

The signum argument specifies the number of a real-time signal. The real-time signal is sent to the thread if the run-time instrumentation buffer is full or if the `run-time-instrumentation-halted` interrupt occurred.

RETURN VALUE

On success, `s390_runtime_instr()` returns 0 and enables the thread for run-time instrumentation by assigning the thread a default run-time instrumentation control block. The caller can then read and modify the control block and start the run-time instrumentation. On error, -1 is returned and `errno` is set to one of the error codes listed below.

ERRORS

EINVAL The value specified in command is not a valid command or the value specified in `signum` is not a real-time signal number.

ENOMEM Allocating memory for the run-time instrumentation control block failed.

EOPNOTSUPP

The run-time instrumentation facility is not available.

VERSIONS

This system call is available since Linux 3.7.

CONFORMING TO

This Linux-specific system call is available only on the s390 architecture. The run-time instrumentation facility is available beginning with System z EC12.

NOTES

Glibc does not provide a wrapper for this system call, use `syscall(2)` to call it.

The `asm/runtime_instr.h` header file is available since Linux 4.16.

SEE ALSO

`syscall(2)`, `signal(7)`

COLOPHON

This page is part of release 5.05 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.