

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.

SEE ALSO

[syscall\(2\)](#), [signal\(7\)](#)

COLOPHON

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