

NAME

`slurm_kill_job`, `slurm_kill_job_step`,
`slurm_signal_job`, `slurm_signal_job_step`,
`slurm_terminate_job_step` – Slurm job signal calls

SYNTAX

```
#include <slurm/slurm.h>

int slurm_kill_job (
    uint32_t job_id,
    uint16_t signal,
    uint16_t batch_flag
);

int slurm_kill_job_step (
    uint32_t job_id,
    uint32_t job_step_id,
    uint16_t signal
);

int slurm_signal_job (
    uint32_t job_id,
    uint16_t signal
);

int slurm_signal_job_step (
    uint32_t job_id,
    uint32_t job_step_id,
    uint16_t signal
);

int slurm_terminate_job_step (
    uint32_t job_id,
    uint32_t job_step_id
);
```

ARGUMENTS

batch_flag If non-zero then signal only the batch job shell.

job_id Slurm job id number.

job_step_id
 Slurm job step id number.

signal Signal to be sent to the job or job step.

DESCRIPTION

slurm_kill_job Request that a signal be sent to either the batch job shell (if *batch_flag* is non-zero) or all steps of the specified job. If the job is pending and the signal is SIGKILL, the job will be terminated immediately. This function may only be successfully executed by the job's owner or user root.

slurm_kill_job_step Request that a signal be sent to a specific job step. This function may only be successfully executed by the job's owner or user root.

slurm_signal_job Request that the specified signal be sent to all steps of an existing job.

slurm_signal_job_step Request that the specified signal be sent to an existing job step.

slurm_terminate_job_step Request that terminates a job step by sending a REQUEST_TERMINATE_TASKS rpc to all slurmd of a job step.

RETURN VALUE

On success, zero is returned. On error, -1 is returned, and Slurm error code is set appropriately.

ERRORS

SLURM_PROTOCOL_VERSION_ERROR Protocol version has changed, re-link your code.

ESLURM_DEFAULT_PARTITION_NOT_SET the system lacks a valid default partition.

ESLURM_INVALID_JOB_ID the requested job id does not exist.



ESLURM_JOB_SCRIPT_MISSING the *batch_flag* was set for a non–batch job.

ESLURM_ALREADY_DONE the specified job has already completed and can not be modified.

ESLURM_ACCESS_DENIED the requesting user lacks authorization for the requested action (e.g. trying to delete or modify another user's job).

ESLURM_INTERCONNECT_FAILURE failed to configure the node interconnect.

SLURM_PROTOCOL_SOCKET_IMPL_TIMEOUT Timeout in communicating with Slurm controller.

NOTE

These functions are included in the libslurm library, which must be linked to your process for use (e.g. "cc -lslurm myprog.c").

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SEE ALSO

scancel(1), **slurm_get_errno(3)**, **slurm_perror(3)**, **slurm_strerror(3)**

