

NAME

`slurm_free_job_step_create_response_msg`, `slurm_job_step_create` – Slurm job step initiation functions

SYNTAX

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

void slurm_free_job_step_create_response_msg (
    job_step_create_response_msg_t *slurm_step_alloc_resp_msg_ptr
);

int slurm_job_step_create (
    job_step_create_request_msg_t *slurm_step_alloc_req_msg_ptr,
    job_step_create_response_msg_t **slurm_step_alloc_resp_msg_ptr
);
```

ARGUMENTS

slurm_step_alloc_req_msg_ptr

Specifies the pointer to the structure with job step request specification. See `slurm.h` for full details on the data structure's contents.

slurm_step_alloc_resp_msg_ptr

Specifies the double pointer to the structure to be created and filled with a description of the created job step: node allocation, credentials, etc. See `slurm.h` for full details on the data structure's contents.

DESCRIPTION

slurm_free_job_step_create_response_msg Release the storage generated in response to a call of the function **slurm_job_step_create**.

slurm_job_step_create Initialize a job step including the allocation of nodes to it from those already allocated to that job. Always release the response message when no longer required using the function **slurm_free_job_step_create_response_msg**. The list of host names returned may be matched to their data in the proper order by using the functions **hostlist_create**, **hostlist_shift**, and **hostlist_destroy**.

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_INVALID_JOB_ID the requested job id does not exist.

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_DISABLED the ability to create a job step is currently disabled. This is indicative of the job being suspended. Retry the call as desired.

ESLURM_INTERCONNECT_FAILURE failed to configure the node interconnect.

ESLURM_BAD_DIST task distribution specification is invalid.

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

**hostlist_create(3), hostlist_shift(3), hostlist_destroy(3), srun(1), slurm_get_errno(3), slurm_per-
ror(3), slurm_strerror(3)**

