

# show job accounting data

`sacct:` displays accounting data for all jobs and job steps in the Slurm job accounting log or Slurm database

If you use the command without any paremeters it will show you the currently running jobs accounting data.

```
$ sacct
```

| JobID  | JobName    | Partition  | Account | AllocCPUS | State   | ExitCode |
|--------|------------|------------|---------|-----------|---------|----------|
| 1127   | omp-bkp-o+ | debug      | incd    | 16        | RUNNING | 0:0      |
| 1128   | omp-bkp-o+ | debug      | incd    | 16        | RUNNING | 0:0      |
| 1128.0 | a.out      | incd       | 16      | RUNNING   | 0:0     |          |
| 1129   | omp-bkp-o+ | debug      | incd    | 16        | RUNNING | 0:0      |
| 1129.0 | a.out      | incd       | 16      | RUNNING   | 0:0     |          |
| 1130   | omp-bkp-o+ | debug      | incd    | 16        | RUNNING | 0:0      |
| 1156   | run_zacar+ | HPC_4_Days | root    | 1         | RUNNING | 0:0      |

You can specify the job which data you would like to view by using the `-j` flag.

```
$ sacct -j 1156
```

| JobID | JobName    | Partition  | Account | AllocCPUS | State   | ExitCode |
|-------|------------|------------|---------|-----------|---------|----------|
| 1156  | run_zacar+ | HPC_4_Days | root    | 1         | RUNNING | 0:0      |

You can list jobs by user, by adding the `-u` flag and choosing the user.

```
$ sacct -u jprmachado
```

| JobID  | JobName    | Partition | Account | AllocCPUS | State   | ExitCode |
|--------|------------|-----------|---------|-----------|---------|----------|
| 1127   | omp-bkp-o+ | debug     | incd    | 16        | RUNNING | 0:0      |
| 1128   | omp-bkp-o+ | debug     | incd    | 16        | RUNNING | 0:0      |
| 1128.0 | a.out      | incd      | 16      | RUNNING   | 0:0     |          |

|        |            |       |      |    |         |     |
|--------|------------|-------|------|----|---------|-----|
| 1129   | omp-bkp-o+ | debug | incd | 16 | RUNNING | 0:0 |
| 1129.0 | a.out      |       | incd | 16 | RUNNING | 0:0 |
| 1130   | omp-bkp-o+ | debug | incd | 16 | RUNNING | 0:0 |

You can also filter or create your own custom reports by using the `--format` flag and choosing what data to show.

```
$ sacct --
```

```
format=User,JobID,Jobname,partition,state,time,start,end,elapsed,MaxRss,MaxVMSize,nnodes,ncpus,nodelist
```

| User      | JobID  | JobName    | Partition  | State   | Timelimit           | Start               | End | Elapsed    | MaxRSS     |
|-----------|--------|------------|------------|---------|---------------------|---------------------|-----|------------|------------|
| MaxVMSize | NNodes | NCPUS      | NodeList   |         |                     |                     |     |            |            |
| -----     |        |            |            |         |                     |                     |     |            |            |
| jprmacha+ | 1127   | omp-bkp-o+ | debug      | RUNNING | 20-20:00:+          | 2019-11-20T11:44:28 |     |            | Unknown 9- |
| 04:00:00  |        | 1          | 16         | wn018   |                     |                     |     |            |            |
| jprmacha+ | 1128   | omp-bkp-o+ | debug      | RUNNING | 20-20:00:+          | 2019-11-20T11:46:43 |     |            | Unknown 9- |
| 03:57:45  |        | 1          | 16         | wn019   |                     |                     |     |            |            |
| 1128.0    | a.out  |            | RUNNING    |         | 2019-11-20T11:46:43 |                     |     | Unknown 9- |            |
| 03:57:45  |        | 1          | 16         | wn019   |                     |                     |     |            |            |
| jprmacha+ | 1129   | omp-bkp-o+ | debug      | RUNNING | 20-20:00:+          | 2019-11-20T11:51:30 |     |            | Unknown 9- |
| 03:52:58  |        | 1          | 16         | wn020   |                     |                     |     |            |            |
| 1129.0    | a.out  |            | RUNNING    |         | 2019-11-20T11:51:31 |                     |     | Unknown 9- |            |
| 03:52:57  |        | 1          | 16         | wn020   |                     |                     |     |            |            |
| jprmacha+ | 1130   | omp-bkp-o+ | debug      | RUNNING | 20-20:00:+          | 2019-11-20T11:52:37 |     |            | Unknown 9- |
| 03:51:51  |        | 1          | 16         | wn012   |                     |                     |     |            |            |
| root      | 1156   | run_zacar+ | HPC_4_Days | RUNNING | 8-00:00:00          | 2019-11-27T13:40:02 |     |            | Unknown 2- |
| 02:04:26  |        | 1          | 1          | wn035   |                     |                     |     |            |            |

There is also the possibility to filter you custom report by user and date, you just have to add the `-u` and `--start` flags.

```
$ sacct --
```

```
format=User,JobID,Jobname,partition,state,time,start,end,elapsed,MaxRss,MaxVMSize,nnodes,ncpus,nodelist -u  
zbenta --start 2019-11-28
```

| User      | JobID  | JobName | Partition | State | Timelimit | Start | End | Elapsed | MaxRSS |
|-----------|--------|---------|-----------|-------|-----------|-------|-----|---------|--------|
| MaxVMSize | NNodes | NCPUS   | NodeList  |       |           |       |     |         |        |

```

-----
zbenta 1163      clover32  stage2  TIMEOUT  04:00:00 2019-11-28T13:22:31 2019-11-28T17:22:46
04:00:15          8      128  wn[022-029]
      1163.batch  batch      CANCELLED      2019-11-28T13:22:31 2019-11-28T17:22:47
04:00:16  40152K  186176K    1      16      wn022
      1163.0      orted      FAILED      2019-11-28T13:22:35 2019-11-28T17:22:46 04:00:11
38104K  254748K    7      7  wn[023-029]

```

You can also use the flags to give you a report during a specific time interval, just use the `--start` and `--end` flags.

```

$ sacct --
format=User,JobID,Jobname,partition,state,time,start,end,elapsed,MaxRss,MaxVMSize,nnodes,ncpus,nodelist -u
zbenta --start 2019-10-07 --end 2019-10-11

```

| User      | JobID   | JobName   | Partition | State       | Timelimit  | Start               | End                 | Elapsed  | MaxRSS |
|-----------|---------|-----------|-----------|-------------|------------|---------------------|---------------------|----------|--------|
| MaxVMSize | NNodes  | NCPUS     | NodeList  |             |            |                     |                     |          |        |
| -----     |         |           |           |             |            |                     |                     |          |        |
| zbenta 15 |         | Run_PRISM | debug     | FAILED      | 365-00:00+ | 2019-10-07T11:05:58 | 2019-10-07T11:06:09 |          |        |
| 00:00:11  |         | 2         | 32        | wn[018-019] |            |                     |                     |          |        |
| 15.batch  |         | batch     |           | FAILED      |            | 2019-10-07T11:05:58 | 2019-10-07T11:06:09 |          |        |
| 00:00:11  |         | 1         | 16        | wn018       |            |                     |                     |          |        |
| 15.0      |         | orted     |           | COMPLETED   |            | 2019-10-07T11:06:02 | 2019-10-07T11:06:07 |          |        |
| 00:00:05  |         | 1         | 1         | wn019       |            |                     |                     |          |        |
| zbenta 20 |         | Run_PRISM | debug     | CANCELLED+  | UNLIMITED  | 2019-10-08T11:42:01 | 2019-10-08T12:12:03 |          |        |
| 00:30:02  |         | 2         | 32        | wn[018-019] |            |                     |                     |          |        |
| 20.batch  |         | batch     |           | CANCELLED   |            | 2019-10-08T11:42:01 | 2019-10-08T12:12:05 | 00:30:04 |        |
| 2626556K  | 186140K | 1         | 16        | wn018       |            |                     |                     |          |        |
| 20.0      |         | orted     |           | FAILED      |            | 2019-10-08T11:42:05 | 2019-10-08T12:12:08 | 00:30:03 |        |
| 2594880K  | 292116K | 1         | 1         | wn019       |            |                     |                     |          |        |
| zbenta 28 |         | Run_PRISM | debug     | FAILED      | UNLIMITED  | 2019-10-11T14:33:06 | 2019-10-11T14:33:06 |          |        |
| 00:00:00  |         | 2         | 32        | wn[003,015] |            |                     |                     |          |        |
| 28.batch  |         | batch     |           | FAILED      |            | 2019-10-11T14:33:06 | 2019-10-11T14:33:06 |          |        |
| 00:00:00  |         | 1         | 16        | wn003       |            |                     |                     |          |        |

“ \*\*For more detailed information, please see the manual `man sacct` \*\*

Revision #4

Created 29 November 2019 15:12:21 by Zacarias Benta

Updated 16 March 2023 15:13:10 by João Pina