

# BS2000/OSD Job Information

The job information facility allows you to display information about BS2000/OSD jobs (tasks). You can also use this facility to handle files related to a specific job.

## ▶ To enter the job information facility

- Select the BS2000/OSD jobs option from the Natural ISPF Main Menu.

The BS2000/OSD Jobs Entry Panel appears:

```

----- BS2000 JOBS ENTRY PANEL -----
COMMAND ===>

Job Name      ===>
TSN           ===>
Type          ===>          ( B,D,S,T,W,H,K or combination,
                           or a combination of digits 1..8 )
Originator    ===>          ( Related TSN,   for Print Jobs only )
Out-Device    ===>          ( Output device, for Print Jobs only )
Node          ===> 31

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Split End   Suspe Rfind Rchan Up      Down Swap Left  Right :s

```

You can specify the job you wish to handle in the input fields and enter a function command in the command line. The meaning of the input fields is explained in the following table:

| Field      | Meaning  |
|------------|--|
| Job Name   | Job name as specified on the /LOGON or /PRINT command. Leave blank or use strings and wildcards (* and _) to generate a list of jobs matching the job name pattern. See the subsection Selection Windows and Wildcards in the section Command Logic.   |
| TSN        | Task sequence number assigned to a specific job. This can be numeric or alphanumeric, depending on the version of BS2000/OSD installed and the settings of its system parameters.  |
| Type       | Type (category) of job. Possible options:<br><b>B</b> Active Batch jobs<br><b>D</b> Active Dialog tasks<br><b>H</b> Tasks in status HOLD<br><b>K</b> Tasks in status KEEP<br><b>S</b> Active System tasks<br><b>T</b> Active TP tasks<br><b>W</b> Tasks in status WAITING<br><b>1</b> Tasks waiting in job pool: WT, HO or DO(rmant)<br><b>2</b> Active tasks<br><b>3</b> (active) Dialog tasks<br><b>4</b> Spoolout jobs waiting to be processed<br><b>5</b> Active spoolout jobs<br><b>6</b> RBP spoolout jobs (Remote Batch Processing)<br><b>7</b> RSO spoolout jobs (Remote Spool Output)<br><b>8</b> Active RBP tasks (Remote Batch Processing)<br>Combinations of types are possible, for example ST selects Types S and T, or 12 selects Types 1 and 2. Combinations of digits and letters (for example, D1) are not accepted. |
| Originator | For spoolout jobs, TSN of the task that started the job.   |
| Out-Device | For spoolout jobs, name of associated output device.   |
| Node       | Node ID of machine on which the job ran. Enter a question mark ? and press Enter to list available nodes. Leave blank to select the default node.  |

## Function Commands

The available function commands are:

| Command     | Object Parameter Syntax                |
|-------------|--|
| CC          | tsn NODE=id                            |
| FOLLOW      | tsn NODE=id                            |
| INFORMATION | tsn NODE=id                            |
| LIST        | *_* TYPE=t ORIG=o DEV=d USER=u NODE=id |
| OUTPUT      | tsn NODE=id                            |
| STATUS      | tsn NODE=id                            |

A full description of these commands is contained in the section Command Reference. The object parameters correspond to the input fields on the BS2000/OSD Jobs Entry Panel, except the USER parameter on the LIST command. This parameter is relevant only if you are working with administrator authority (TSOS).

### Notes:

1. If you issue any of the above function commands from outside the BS2000/OSD jobs facility, you must specify the appropriate object-type parameter (BJ) before the object parameters.
2. If you issue the CC, FOLLOW, STATUS or OUTPUT commands without parameters, the job last submitted during the current Natural ISPF session is assumed.
3. In environments with alphanumeric TSNs, the first object parameter in the above commands can be either a job name or TSN. For the commands FOLLOW, INFORMATION and STATUS, the first object parameter is first checked as TSN, then as job name. Alternatively, you can specify job name with the JNAME= parameter, or enclose the parameter in parentheses, indicating that it is a TSN.

## Listing Jobs

Lists of jobs currently executing under your user ID can be generated using the LIST command and selection criteria in the parameter input fields of the BS2000/OSD Jobs Entry Panel. Alternatively, you can issue the LIST command with appropriate parameters from any system screen.

### Example: LIST BJ (1)

The following can be listed:

1. Jobs according to prefix or pattern using the wildcards \* and \_. For example, the following command lists all jobs whose names start with BS:

```
LIST BJ BS*
```

2. Dialog tasks (TIAM), started tasks, standard batch jobs, spoolout tasks using the TYPE parameter. The TYPE parameter can be a string of type characters or type digits. You can further restrict the list by specifying a job name pattern. For example, the following command lists all jobs whose names start with BS that are in WAIT state:

```
LIST BJ BS* TYPE=W
```

3. Spoolout tasks associated with a specific output device:

```
LIST BJ BS* DEVICE=ddd
```

4. Spoolout tasks originating from a specific job:

```
LIST BJ * ORIGINATOR=tsn
```

An example list of jobs is shown below.

### Example: LIST BJ (2)

The following figure shows an example of a list of jobs generated using the command:

```
LIST BJ *
```

```
LIST-BJ:* ----- Row 0 of 3 - Columns 035 076
COMMAND===>
JOBNAME      TSN TYP CATEGORY  PRIO CPU-MM:SS.CC DEVICE  OR-TSN  SIZE COPIES
** ***** top of list *****
EDRGBPA      PEA 2 BATCH      255 0:00.89
EDRGBPB      PD9 2 BATCH      255 0:00.88
MZC          W3Y 3 DIALOG     240 3:12.78
** ***** bottom of list *****
```

The list generated shows all jobs executing under your user ID. The list appears in Editor format. This means you can use Editor BROWSE commands (UP, DOWN, TOP, BOTTOM, LEFT, RIGHT, FIND, LOCATE), as well as SORT and LAYOUT.

The list is refreshed every time you press Enter without a command in the command line.

Use the RIGHT command to display more information:

```
LIST-BJ:* ----- Row 0 of 3 - Columns 066 107
COMMAND===>
JOBNAME      TSN TYP CATEGORY  PRIO SIZE COPIES USER-ID  CPU-USED  CPU-MAX
** ***** top of list *****
EDRGBPA      PEA 2 BATCH      255          NATISPF    0.89  32767.00
EDRGBPB      PD9 2 BATCH      255          NATISPF    0.88  32767.00
MZC          W3Y 3 DIALOG     240          NATISPF   192.78  32767.00
** ***** bottom of list *****
```

Meaning of column headings (some columns may be empty, depending on the job type and status):

| Column       | Meaning   |
|--------------|---|
| JOB-NAME     | Job name as defined in the LOGON statement.   |
| TSN          | Task sequence number assigned to the job.   |
| TYP          | Numeric job type identifier. For example, 2=Batch, 3=Dialog.                                      |
| CATEGORY     | Information on job type and status.   |
| PRIO         | Run priority of job/task.   |
| CPU-MM:SS.CC | Amount of CPU time consumed by the job, specified in minutes, seconds and hundredths of a second. |
| DEVICE       | Output device assigned (spoolout jobs only).  |
| OR-TSN       | Task sequence number of the job that generated the spoolout (in other cases, blank).              |
| SIZE         | Size of spoolout file (spoolout jobs only).   |
| COPIES       | Total number of copies to be printed (spoolout jobs only).  |
| USER-ID      | User ID under which the job is executing (usually your own user ID).                              |
| CPU-USED     | Amount of CPU time consumed by the job, in seconds.   |
| CPU-MAX      | Maximum amount of CPU time allowed for the job.   |

**Note:**

You can change the layout of this list according to your needs. For detailed information, see the subsection Layout Command for Lists in the section Useful Features.

## Line Commands

You select a job from a list by typing in a line command in the input field preceding the job name and pressing Enter. Each line command is an abbreviation of a function command:

| Line Command | Function    | Meaning   |
|--------------|-------------|---|
| CC           | CC          | Display resulting information kept in job variables ('condition codes').  |
| FL           | FOLLOW      | Report job progress in the message line.  |
| IN           | INFORMATION | Report current status of job on a full screen.  |
| L            | LIST        | List related spoolout jobs (if any).  |
| OT           | OUTPUT      | List output files created by the job and associated by means of a file name pattern. Note that site-specific association rules may have been established by your system administrator. If no such rules apply, the files containing the TSN as part of their name are listed. |
| ST           | STATUS      | Show current status of job in the message line.   |

Line commands can also be used as valid abbreviations of function commands entered in the command line of any system screen.

## Local Commands

If you display a list of BS2000/OSD jobs, you can issue the following local commands from the Editor command line in addition to Editor commands: ALL, LAYOUT, RELIST and SORT. For detailed information, see the corresponding subsections in the section Useful Features.

## Condition Codes of BS2000/OSD Jobs

The function command CC provides an overview of job variables related to a specific job. It lists the variable names and the first 64 bytes of their values. The criteria for selecting the variables are as follows:

- job variables containing the TSN of the job as part of their names, enclosed in dots . . ;
- job variables containing the TSN at any position in their value;
- if the specified job was the last job created by the Natural ISPF SUBMIT function, and if a monitoring job variable was specified when submitting, that monitoring job variable is included;
- only job variables of the current BS2000/OSD user ID are selected.

**Notes:**

1. The CC function command is available only if SNI's software product JV has been installed as part of your BS2000/OSD system environment.
2. Selecting job variables by their values (contents) could cause poor performance for this function. For this reason, your system administrator may have disabled this part of the selection logic, and the job variables will only be selected by name.

