

# ACTIVE-JOBS

<b>File</b>	29
<b>Op-Sys</b>	OS/390, VSE/ESA, BS2000/OSD
<b>Statement</b>	FIND
<b>Task</b>	Retrieve the tasks that are currently active in the system and get information about them (for example, the amount of CPU time already used by the tasks). (BS2000/OSD: corresponds to BS2000/OSD command <code>/sta p</code> : retrieve tasks of Type 2 or 3).

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## Common Fields for all Operating Systems

Dictionary Field Name	F/L	Mu	DE	Remarks
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N3		D	
NODE-NAME	A16		D	
SYSTEM-MESSAGE-CODE	A10			
JOB-NAME	A8		D	
TYPE	A6		D	
STATUS	A8		D	
CPU-USED	N7.2		D	
DISPATCHING-PRIORITY	B1		D	
JOB-NUMBER	N5		D	
JOB-ID	A5		D	

## Additional Fields Supported for OS/390

Dictionary Field Name	F/L	Mu	DE	Remarks
ADDRESS	B4			
REGION	N5		D	
PROC-NAME	A8		D	
STEP-NAME	A8		D	
JES-INIT-ID	A2		D	Relevant with TYPE=JOB
SIO-COUNT	N11		D	
TCB	B4		D	
ASID	N4		D	
DISPATCHABLE	A3		D	
CLASSES	A6		D	Relevant with TYPE=JOB

## Additional Fields Supported for VSE/ESA

Dictionary Field Name	F/L	Mu	DE	Remarks
PARTITION	A2		D	
ADDRESS	B4			
REGION	N5		D	
PROC-NAME	A8		D	
STEP-NAME	A8		D	
SIO-COUNT	N11		D	
VSIZE	N5		D	
REPLY-ID	A3		D	
CLASSES	A6		D	

## Additional Fields Supported for BS2000/OSD

Dictionary Field Name	F/L	Mu	DE	Remarks
SYSTEM-CODE	B2			
ACCOUNT-NUMBER	A8			
CPU-MAX	N7.2			
TYPE-NUMBER	N1			
USER	A8			
HOLD	A3			

## Relevant Error Codes

Code	Text	OS/390	VSE/ESA	BS2000/OSD
699	Not enough main storage available.			X
728	You are not allowed to see this job.			X
750	Invalid operand within operand list.			X
751	Not enough memory to execute the function.			X
799	Entire System Server internal error.			X
830	OS/390: JES interface is not active. VSE/ESA: POWER interface not active.	X	X	
831	Error during queue initialization.	X	X	
988	Invalid task type detected.			X

## Field Descriptions

Field Name	Type/Length	Operating System
ACCOUNT-NUMBER	(A8)	BS2000/OSD

Account number of the job.

Field Name	Type/Length	Operating System
ADDRESS	(B4)	OS/390, VSE/ESA

ASCB address.

Field Name	Type/Length	Operating System
ASID	(N4)	OS/390

Address space identifier.

Field Name	Type/Length	Operating System	Explanation
CLASSES	(A6)	OS/390	Relevant when TYPE=JOBS: JES batch initiator classes.
VSE/ESA	CLASSES assigned to the partition.		

Field Name	Type/Length	Operating System
CPU-USED	(N7.2)	OS/390, VSE/ESA, BS2000/OSD

The amount of CPU time consumed by the job/address space. Format: SSSSS.HH.

Field Name	Type/Length	Operating System
CPU-MAX	(N7.2)	BS2000/OSD

The CPU time limit for the job.

Field Name	Type/Length	Operating System
DISPATCHABLE	(A3)	OS/390

Dispatchability of address space. Possible values:

Value	Explanation
NO	Address space is not dispatchable.
YES	Address space is dispatchable.

Field Name	Type/Length	Operating System
DISPATCHING-PRIORITY	(B1)	OS/390, VSE/ESA, BS2000/OSD

Dispatching priority given by the operating system. For BS2000/OSD, the run priority of the task.

Field Name	Type/Length	Operating System
HOLD	(A3)	BS2000/OSD

Indicates if a job is in HOLD status. Possible values:

- NO
- YES

Field Name	Type/Length	Operating System
JES-INIT-ID	(A2)	OS/390

Relevant when TYPE=JOB: JES batch initiator identifier.

Field Name	Type/Length	Operating System
JOB-ID	(A5)	OS/390, VSE/ESA, BS2000/OSD

Job number in alphanumeric format. Must be used for BS2000/OSD V10 with alphanumeric TSNs. In case of numeric job numbers, the job number will also be returned in field JOB-NUMBER.

Field Name	Type/Length	Operating System
JOB-NAME	(A8)	OS/390, VSE/ESA, BS2000/OSD

Name of the job. In OS/390 and VSE/ESA, this is taken from the job card.

Field Name	Type/Length	Operating System
JOB-NUMBER	(N5)	OS390, VSE/ESA, BS2000/OSD

Column Heading	Meaning
OS/390:	JES job identifier
VSE/ESA:	POWER job identifier.
BS2000/OSD:	TSN (task sequence number), if numeric. This field will contain zero in case of alphanumeric TSN.

Field Name	Type/Length	Operating System
PARTITION	(A2)	VSE/ESA

Partition identifier.

Field Name	Type/Length	Operating System
PROC-NAME	(A8)	OS/390, VSE/ESA

Name of the procedure currently being executed.

Field Name	Type/Length	Operating System
REGION	(N5)	OS/390, VSE/ESA

Amount of real storage used by the address space in Kbytes.

Field Name	Type/Length	Operating System
REPLY-ID	(A3)	VSE/ESA

Field Name	Type/Length	Operating System
SIO-COUNT	(N11)	OS/390, VSE/ESA

Number of I/O operations performed so far.

Field Name	Type/Length	Operating System
STATUS	(A8)	OS/390, VSE/ESA, BS2000/OSD

Status of the address space. In BS2000/OSD, this is the same as field TYPE.

**Possible values for OS/390:**

Value	Explanation
<blank>	Address space is swapped in.
NON-SWAP	Address space is non-swappable.
SWAP-OUT	Address space is swapped out.
TERM	Address space is terminating.
V=R	Running in real memory.

**Possible values for VSE/ESA:**

Value	Explanation
ACTIVE	Partition has active job.
UNBATCH	Partition has no job.
STOPPED	Partition will not accept new jobs.

Field Name	Type/Length	Operating System
STEP-NAME	(A8)	OS/390, VSE/ESA

Name of the step currently being executed.

Field Name	Type/Length	Operating System
TCB	(B4)	OS/390

TCB address of first ready task for this address space.

Field Name	Type/Length	Operating System
TYPE	(A6)	OS/390, VSE/ESA, BS2000/OSD

Type of job. Possible values:

Option	Job Type	Explanation
OS/390:	JOB INI STC TSU	batch job JES initiator started task TSO user
BS2000/OSD:	BATCH DIALOG TP	batch job dialog task batch job with TP privilege
VSE/ESA:	JOB	batch job

Field Name	Type/Length	Operating System
TYPE-NUMBER	(N1)	BS2000/OSD

Numeric job type identifier as used in BS2000/OSD, for example, 2 for batch jobs, 3 for dialog tasks.

Field Name	Type/Length	Operating System
USER	(A8)	BS2000/OSD

User ID of job.

Field Name	Type/Length	Operating System
VSIZE	(N5)	VSE/ESA

Partition size.

## Examples:

The following example applies to all operating systems:

```

...
  FIND ACTIVE-JOBS WITH NODE = 148
                        AND CPU-USED < 1000
  *
    IF ACTIVE-JOBS.ERROR-CODE NE 0
      WRITE ACTIVE-JOBS.ERROR-TEXT
      ESCAPE ROUTINE
    END-IF
  *
    DISPLAY ACTIVE-JOBS.JOB-NAME
            ACTIVE-JOBS.JOB-ID
            ACTIVE-JOBS.TYPE
            ACTIVE-JOBS.STATUS
            ACTIVE-JOBS.CPU-USED

  END-FIND
...

```

### Result for OS/390:

JOB-NAME	JOB-ID	TYPE	CPU	STATUS
...				
XCOM148	2975	STC	68.04	NON-SWAP
INIT		INI		IDLE
DELINDEX	2988	JOB	13.45	
WKK	2802	TSU	2.95	SWAP-OUT
...				

Examples:

ACTIVE-JOBS

**Result for BS2000/OSD:**

JOB-NAME	JOB-ID	TYPE	CPU	STATUS
...				
DB01	1UFN	BATCH	179.51	BATCH
ASF	1URL	DIALOG	12.78	DIALOG
...				