

# View Descriptions Overview

This section gives a detailed description of every view available through Entire System Server. The section is structured as follows:

- The selection box below lists all view descriptions in alphabetical order. Each view description subsection gives a full description of the view, listing first all field names according to operating system. An overview of error messages relevant to the view is given, followed by a detailed description of each field in alphabetical order.
- The subsection **General Information** explains how the description of each view is organized, and describes global fields (that is, fields relevant to each view).
- The subsection **View Summary** provides an overview of available views, listing them according to their functional area.

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## Alphabetical List of Specific View Descriptions

ACCOUNTING	ACTIVE-JOBS	ADDRESS-SPACE	ALLOCATIONS
ARCHIVE	CATALOG	CATALOG-UPDATE	CHECK-SECURITY
COMMON-DATA	CONSOLE	CONSOLE-LOG	COPY-FILE
DEVICE-NAMES	EVENTING	FILE-ALLOCATE	FILE-ATTRIBUTES
FILE-MAINTENANCE	HELP-INFO	IDCAMS	IEBCOPY
ITC	JOB-SWITCHES	JOB-VARIABLES	LIB-DIRECTORY
LIB-UPDATE	LIB-ZAP	LOADED-MODULES	LOAD-MODULE
MAIN-STORAGE	NATPROC-LOGON	NATPROC-USERS	NET-OPER
READ-FILE	READ-SPOOL	RESOURCE-CONTROL	SEND-EMAIL
SEND-MESSAGE	SPOOL-FILES	SPOOL-QUEUE	SPOOL-UPDATE
SUBMIT	SYSTEM-COMMAND	SYSTEM-INFO	TASK-INFO
TCB	UNIT-ATTRIBUTES	USER-ATTRIBUTES	VTOC
VTOC-UPDATE	WRITE-FILE	WRITE-SPOOL	

## General Information

- Global Fields
- Global Error Codes
- Order of Information returned by Views

The description of each view in this section begins with a header subsection containing the following general information about the view:

Item	Meaning
File	The file number assigned to the view within Entire System Server. This number must not be changed.
Opsys	Operating system(s) to which the view applies. For the sake of readability, the term 'OS/390' is used to mean both OS/390 and z/OS.
Statement	The statement you must use in your Natural programs to access the view. This is either FIND or PROCESS, depending on the view and the required function.
Task	A short description of the purpose of the view. This description is based on the online help text provided for each view in the online tutorial (see Section Online Tutorial).

**Note:**

The view name may be changed by the Entire System Server Administrator. The file number and access statement cannot be changed.

**Example:**

You will find this header subsection for the view ACTIVE-JOBS:

Item	Meaning
File	29
Opsys	OS/390, VSE/ESA, BS2000/OSD
Statement	FIND
Task	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 /sta p: retrieve tasks of Type 2 or 3).

Each view description contains the following information for fields defined to the view:

Item	Meaning
Dictionary Field Name	The name of the field in Natural.
F/L	Field format and length: <b>A</b> Alphanumeric <b>B</b> Binary <b>D</b> Date <b>N</b> Numeric <b>T</b> Time
Mu	For fields that can be specified more than once, this column gives the maximum number of occurrences.
DE	Descriptor. <b>D</b> in this column means that this field name can be specified in the WITH clause of the FIND statement or the USING clause of the PROCESS statement. These fields support the search criteria available for the FIND statement (see Section Getting Started) where this is appropriate.
Remarks	General remarks concerning the field, for example, whether it is required, or whether it is dependent on a particular function.

**Example:**

The following table is the overview of some fields common to all operating systems for the view COPY-FILE:

Dictionary Field Name	F/L	Mu	DE	Remarks
Common Fields for all Operating Systems:				
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N3		D	
NODE-NAME	A16		D	
SYSTEM-MESSAGE-CODE	A10			
FROM-DSNAME	A54		D	Required
FROM-PRODUCT	A1		D	
FROM-PASSWORD	A8		D	
TO-DSNAME	A54		D	Required

## Global Fields

Certain fields are common to all views. These are known as **global fields** and do not appear in the full description of each field in this section (though they are included in the field overview for each view). The global fields are:

Field Name	Type/Length	Operating System
ERROR-CODE	(N3)	OS/390, VSE/ESA, BS2000/OSD

Message code returned. For the meaning of message codes, see the Entire System Server Messages and Codes documentation.

Field Name	Type/Length	Operating System
ERROR-TEXT	(A58)	OS/390, VSE/ESA, BS2000/OSD

Message text. For the meaning of message, see the Entire System Server Messages and Codes documentation.

Field Name	Type/Length	Operating System
NODE	(N3)	OS/390, VSE/ESA, BS2000/OSD

Number of the Entire System Server node to be addressed. Typically, the node number is required if you are working in a distributed environment and you wish to perform a function on a different computer in the network (see also the subsection Using the Entire System Server in the Entire System Server Installation and Customization documentation).

Field Name	Type/Length	Operating System
NODE-NAME	(A16)	OS/390, VSE/ESA, BS2000/OSD

Name of the Entire System Server node to be addressed. This field is optional. For further information, see the subsection Using Entire System Server in a Multi-Computer Environment in the section Getting Started.

Field Name	Type/Length	Operating System
SYSTEM-CODE	(B2)	BS2000/OSD

Original system error code.

Field Name	Type/Length	Operating System
SYSTEM-MESSAGE-CODE	(A10)	BS2000/OSD, OS/390, VSE/ESA

System error code specific to the operating system. A code returned in the ERROR-CODE field can translate to any of a number of operating-system-specific system codes.

If any call to Entire System Server gets an error code of 508 with the error text "ESY5508 ADABAS response code :1:" returned from ESY, then the field SYSTEM-MESSAGE-CODE is filled with the appropriate Adabas response code in the form ADAnnn, where *nnn* is the Adabas response code.

## Global Error Codes

Certain error codes may be returned with any view. These are known as 'Global Error Codes'. Each view description in this section contains a table with possible error codes relevant to the view. The table below contains a list of global error codes. A full explanation of error codes is given in the Entire System Server Messages and Codes documentation.

Code	Text	OS/390	VSE/ESA	BS2
507	Too many parallel ESY requests.	X	X	X
508	Adabas response code xxx returned from ESY.	X	X	X
510	Logon required.	X	X	X
520	No core available (ASIZE).	X	X	X
521	NATPNI/NATPNIP unresolved.	X	X	X
530	Access denied by Security Facility.			X*
774	No core available.	X	X	X
776	Request was cancelled.	X	X	X
777	Request has abended.	X	X	X
999	Entire System Server node nnn not active.	X	X	X

\* For automatic logon as TSOS under UTM.

### Note:

In BS2000/OSD, if error code 799 (Entire System Server internal error) is returned, check the field SYSTEM-MESSAGE-CODE for additional information.

## Order of Information returned by Views

Unless otherwise noted, the default return order of information returned by view processors accessed by FIND (but not FIND (1) - "read views") is not guaranteed to be in any specific order. The views that have a guarantee of default order are:

- CONSOLE
- CONSOLE-LOG
- IDCAMS
- IEBCOPY
- LIB-DIRECTORY
- LIB-ZAP
- NET-OPER
- READ-FILE
- READ-SPOOL
- SYSTEM-COMMAND

More information regarding a specific order of returned information can be found in the appropriate view description.

If information needs to be returned in a specific order, the NATURAL SORT statement can be used. See the NATURAL Statements manual for more information.

All views accessed by PROCESS or FIND (1) ("update views") will deliver data in the order received by the program.

## View Summary

- File and Catalog Management
- Spool / Job Management
- System Maintenance
- Miscellaneous

This subsection summarizes Entire System Server views according to their functional area. Together with the view name, the operating systems to which the view applies is given. The third column gives a short description of the view's function.

### File and Catalog Management

View Name	Supported Operating Systems	Description	File No.
ARCHIVE	BS2000/OSD	Run ARCHIVE utility.	211
CATALOG	OS/390, VSE/ESA, BS2000/OSD	List catalog information.	8
CATALOG-UPDATE	OS/390, BS2000/OSD	Perform catalog maintenance. BS2000/OSD: modify file attributes.	10
COPY-FILE	OS/390, VSE/ESA, BS2000/OSD	Copy files. Under OS/390 and VSE/ESA, copying can be performed from node to node.	37
FILE-ALLOCATE	OS/390, VSE/ESA, BS2000/OSD	Allocate dataset to disk.	9
FILE-ATTRIBUTES	OS/390, VSE/ESA, BS2000/OSD	Display attributes of a dataset.	1
FILE-MAINTENANCE	OS/390, BS2000/OSD	Compress dataset or release unused space.	18
IDCAMS	OS/390	Run IDCAMS utility.	14
IEBCOPY	OS/390	Run IEBCOPY utility.	17
LIB-DIRECTORY	OS/390, VSE/ESA, BS2000/OSD	Read directory entries.	3
LIB-UPDATE	OS/390, VSE/ESA, BS2000/OSD	Perform operations on directory.	5
READ-FILE	OS/390, VSE/ESA, BS2000/OSD	Read records from a dataset.	2
UNIT-ATTRIBUTES	OS/390, VSE/ESA	Read information on I/O units.	6
VTOC	OS/390, VSE/ESA, BS2000/OSD	Read VTOC entries for a volume.	4
VTOC-UPDATE	OS/390, VSE/ESA, BS2000/OSD	Maintain VTOC entries. BS2000/OSD: erase or rename file.	7
WRITE-FILE	OS/390, VSE/ESA, BS2000/OSD	Write records to a dataset.	204

## Spool / Job Management

View Name	Supported Operating Systems	Description	File No.
ACTIVE-JOBS	OS/390, VSE/ESA, BS2000/OSD	Read information on active jobs.	29
JOB-SWITCHES	BS2000/OSD	Perform operations on user and process switches.	81
JOB-VARIABLES	BS2000/OSD	Perform operations on job variables.	82
READ-SPOOL	OS/390, VSE/ESA	Read spool records for a job.	12
SPOOL-FILES	OS/390, BS2000/OSD	Read and maintain spool files for a given job.	36
SPOOL-QUEUE	OS/390, VSE/ESA, BS2000/OSD	Read entire spool queue. BS2000/OSD: Read all jobs in any system queue.	11
SPOOL-UPDATE	OS/390, VSE/ESA	Change status of job.	13
SUBMIT	OS/390, VSE/ESA, BS2000/OSD	Submit job.	200
TASK-INFO	BS2000/OSD	Read information for a task.	113
WRITE-SPOOL	OS/390, VSE/ESA, BS2000/OSD	Write records to spool. BS2000/OSD: Print records or dataset.	203

## System Maintenance

View Name	Supported Operating Systems	Description	File No.	
ACCOUNTING	OS/390	Read accounting information.	34	
ADDRESS-SPACE	OS/390	Read address space information.	21	
ALLOCATIONS	OS/390	Read allocations for a job.	22	
CONSOLE	OS/390, VSE/ESA, BS2000/OSD	Perform operations on operator console.	35	
CONSOLE-LOG	OS/390, VSE/ESA	Read console log.	25	
DEVICE-NAMES	OS/390	Read generic device names.	30	
LIB-ZAP	OS/390	Run superzap utility (AMASPZAP).	16	
LOADED-MODULES	OS/390	Read modules loaded by a job.	23	
MAIN-STORAGE	OS/390, VSE/ESA, BS2000/OSD	OS/390:	20	
		VSE/ESA:		Read storage of the ADDRESS-SPACE in which the Entire System Server partition is defined.
		BS2000/OSD:		Read content of common memory pool.
NET-OPER	OS/390, VSE/ESA	Execute VTAM operator commands and display results.	15	
SYSTEM-INFO	OS/390, VSE/ESA, BS2000/OSD	Read system information.	26	
TCB	OS/390	Read task information for a job.	24	
USER-ATTRIBUTES	BS2000/OSD	Read user information.	86	

## Miscellaneous

View Name	Supported Operating Systems	Description	File No.
COMMON-DATA	OS/390, VSE/ESA, BS2000/OSD	Perform operations on shared main storage data.	33
CHECK-SECURITY	OS/390	Query external security system as to whether user is allowed to access resource.	45
EVENTING	OS/390, VSE/ESA, BS2000/OSD	Perform program-to-program communication.	40
HELP-INFO	BS2000/OSD	Display help text for an error message.	84
ITC	BS2000/OSD	Execute INTERTASK COMMUNICATION macros.	80
LOAD-MODULE	OS/390	Read information on load module.	44
NATPROC-LOGON	OS/390, VSE/ESA, BS2000/OSD	Perform logon/logoff to Entire System Server.	190
NATPROC-USERS	OS/390, VSE/ESA, BS2000/OSD	Read Entire System Server users currently active and optionally cancel users.	191
RESOURCE-CONTROL	OS/390	Manage resources using ENQ/DEQ.	32
SEND-MESSAGE	OS/390, VSE/ESA, BS2000/OSD	Send message to console and/or Complete, TSO or TIAM user.	19
SYSTEM-COMMAND	OS/390	Execute TSO commands.	46