

LIB-DIRECTORY

File	3
Op-Sys	OS/390, VSE/ESA, BS2000/OSD
Statement	FIND
Task	This view reads the directory of the specified library and returns the entries record by record.

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			
DSNAME	A54		D	Required in OS/390 and BS2000/OSD.
PASSWORD	A8		D	

Additional Fields Supported for OS/390

Dictionary Field Name	F/L	Mu	DE	Remarks
ALIAS	A8		D	
ALIAS-ORIGINAL	A8		D	
MEMBER	A10		D	
MEMBER-TTR	B4		D	
MODULE-ATTRIBUTES	A80		D	
MODULE-LENGTH	N7		D	
NUMBER-OF-OCCURRENCES	N7		D	
OPTIONS	A80		D	
PRODUCT	A1		D	
RECORD	A200		D	
USER-DATA	A120		D	
USER-DATA-LENGTH	N3		D	
VERSION	A2		D	
VOLSER	A6		D	Required only if dataset is not cataloged.

Additional Fields Supported for VSE/ESA

Dictionary Field Name	F/L	Mu	DE	Remarks
BLOCK-COUNT	N5		D	
DATE-CHANGED	A6		D	
DATE-CREATED	A6		D	
DATX-CHANGED	D		D	
DATX-CREATED	D		D	
LIBRARY	A8		D	Required.
LIBRARY-BLOCKS-USED	N7		D	Relevant if LIST-SUBLIBS=YES.
LIST-SUBLIBS	A3		D	Not required if SUB-LIBRARY is specified.
MEMBER	A10		D	
MEMBER-COUNT	N5		D	Relevant if LIST-SUBLIBS=YES.
MEMBER-TYPE	A8		D	
MODULE-ATTRIBUTES	A80		D	
RECORD-COUNT	N7		D	
SUB-LIBRARY	A8		D	Not required if LIST-SUBLIBS is specified.
TIME-CHANGED	N7.0			
TIME-CREATED	N7.0			
USER-DATA	A120		D	
USER-DATA-LENGTH	N3		D	
VOLSER	A6		D	Required only if dataset is not known to Entire System Server.
VSAM-CATALOG	A8		D	Required only if VSAM-controlled Librarian file.

Additional Fields Supported for BS2000/OSD

Dictionary Field Name	F/L	Mu	DE	Remarks
CREATION-DATE	A14		D	
CREATION-TIME	A8		D	
ELEMENT	A64		D	
ELEMENT-TYPE	A8		D	
ELEMENT-VERSION	A24		D	
EXEC-PROTECTION	A5			
MODIF-DATE	A14		D	
MODIF-TIME	A8		D	
PRODUCT	A1		D	
READ-PROTECTION	A5			
STORE-FORM	A1		D	
SYSTEM-CODE	B2			
USER-DATE	A14		D	
USER-DATX	D		D	
USER-TIME	A8		D	
USER-TIMX	T		D	
WRITE-PROTECTION	A5			

Relevant Error Codes

Code	Text	OS/390	VSE/ESA	BS2000/OSD
500	VSAM error	X		
530	Access denied by Security Facility			X
531	Password missing or incorrect			X
550	File not a PDS	X		
565	Syntax error in dataset name			X
697	Library/Sublib not found		X	
698	Internal Librarian error		X	
699	GETVIS failed	X	X	
701	DSNAME missing			X
733	User ID does not exist			X
772	Requested dataset not found			X
799	Entire System Server internal error			X
878	Volume defined as DYNAM/D pool name.		X	
899	I/O error during read	X		
991	Unknown product	X		X
993	OPEN error	X		

Field Descriptions

Field Name	Type/Length	Operating System
ALIAS	(A8)	OS/390

Possible values:

Value	Explanation
YES	Member name is an alias name.
NO	Member name is an original name.

Field Name	Type/Length	Operating System
ALIAS-ORIGINAL	(A8)	OS/390

If ALIAS=YES, original name of the member (load libraries only).

Field Name	Type/Length	Operating System
BLOCK-COUNT	(N5)	VSE/ESA

Number of blocks used by the member.

Field Name	Type/Length	Operating System
CREATION-DATE	(A14)	BS2000/OSD

Creation date of element.

Field Name	Type/Length	Operating System
CREATION-TIME	(A8)	BS2000/OSD

Creation time of element.

Field Name	Type/Length	Operating System
DATE-CHANGED	(A6)	VSE/ESA

Date of last change made to the member in format YYMMDD.

Field Name	Type/Length	Operating System
DATE-CREATED	(A6)	VSE/ESA

Creation date of member in format YYMMDD.

Field Name	Type/Length	Operating System
DATX-CHANGED	(D)	VSE/ESA

Date of last change made to the member in Natural format.

Field Name	Type/Length	Operating System
DATX-CREATED	(D)	VSE/ESA

Creation date of member in Natural format.

Field Name	Type/Length	Operating System
DSNAME	(A54)	OS/390, VSE/ESA, BS2000/OSD

Fully qualified dataset name.

Field Name	Type/Length	Operating System
ELEMENT	(A64)	BS2000/OSD

Name of LMS element.

Field Name	Type/Length	Operating System
ELEMENT-TYPE	(A8)	BS2000/OSD

Type of LMS element.

Field Name	Type/Length	Operating System
ELEMENT-VERSION	(A24)	BS2000/OSD

Version of LMS element.

Field Name	Type/Length	Operating System
EXEC-PROTECTION	(A5)	BS2000/OSD

Protection attributes of element for EXECUTION.

Possible values are **Y** (yes) or **N** (no).

Protection Attribute	Meaning
Byte 0:	Special protection.
Byte 1:	OWNER can access.
Byte 2:	GROUP can access.
Byte 3:	OTHERS can access.
Byte 4:	Password defined.

Field Name	Type/Length	Operating System
LIBRARY	(A8)	VSE/ESA

Name of library.

Field Name	Type/Length	Operating System
LIBRARY-BLOCKS-USED	(N7)	VSE/ESA

Relevant when LIST-SUBLIBS=YES. Number of blocks used by the library.

Field Name	Type/Length	Operating System
MEMBER	(A10)	OS/390, VSE/ESA

Name of member.

Field Name	Type/Length	Operating System
MEMBER-COUNT	(N5)	VSE/ESA

Relevant when LIST-SUBLIBS=YES. Number of members in sublibrary.

Field Name	Type/Length	Operating System
MEMBER-TTR	(B4)	OS/390

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

Member type.

Field Name	Type/Length	Operating System
MODIF-DATE	(A14)	BS2000/OSD

Date of last modification to the element.

Field Name	Type/Length	Operating System
MODIF-TIME	(A8)	BS2000/OSD

Time of last modification to the element.

Field Name	Type/Length	Operating System
MODULE-ATTRIBUTES	(A80)	OS/390, VSE/ESA

The module's attributes in keyword format. The relevant keywords are separated by one blank. Possible values:

OS/390		VSE/ESA	
Keyword	Explanation	Keyword	Explanation
AUTH	APF-authorized.	AMODEANY	Phase has AMODE ANY.
REFR	Refreshable.	AMODE24	Phase has AMODE 24.
RENT	Reentrant.	AMODE31	Phase has AMODE 31.
REUS	Reusable.	MSHPBYP	Member is MSHP bypassed.
OVLY	Overlay.	MSHPCTL	Member is MSHP controlled.
TEST	Test option (TSO).	RECTYPEF	Member has fixed record format.
LOADONLY	Only loadable.	RECTYPEU	Member has undefined record format.
SCTR	Scatter.	RECTYPEV	Member has variable record format.
NOTEXEC	Not executable.	RMODEANY	Phase has RMODE ANY.
		RMODE24	Phase has RMODE 24.
		RMODE31	Phase has RMODE 31.
		SYSIPT	Member contains SYSIPT data.

Field Name	Type/Length	Operating System
MODULE-LENGTH	(N7)	OS/390

Length of module in bytes.

Field Name	Type/Length	Operating System
NUMBER-OF-OCCURRENCES	(N7)	OS/390

Number of records which contain the requested string.

Field Name	Type/Length	Operating System
OPTIONS	(A80)	OS/390

Option	Explanation
ARC	Get list of archived members (CA-LIBRARIAN access method).

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

Password for protected datasets.

Field Name	Type/Length	Operating System
PRODUCT	(A1)	OS/390, BS2000/OSD

Access method used. Possible options:

Option	Explanation
L	CA-LIBRARIAN
M	BS2000/OSD LMS
P	PANVALET

Field Name	Type/Length	Operating System
RECORD	(A200)	OS/390

String for which SCAN is to be performed.

Field Name	Type/Length	Operating System
READ-PROTECTION	(A5)	BS2000/OSD

Protection attributes of element for READ. Possible values are **Y** (yes) or **N** (no).

Protection Attribute	Meaning
Byte 0:	Special protection.
Byte 1:	OWNER can access.
Byte 2:	GROUP can access.
Byte 3:	OTHERS can access.
Byte 4:	Password defined.

Field Name	Type/Length	Operating System
RECORD-COUNT	(N7)	VSE/ESA

Number of records in member.

Field Name	Type/Length	Operating System
STORE-FORM	(A1)	BS2000/OSD

Store form of element. Possible options:

Option	Explanation
D	Delta
V	Full

Field Name	Type/Length	Operating System
SUB-LIBRARY	(A8)	VSE/ESA

Name of sublibrary.

Field Name	Type/Length	Operating System
SUB-LIBS	(A3)	VSE/ESA

Specify YES to return sublibrary names.

Field Name	Type/Length	Operating System
TIME-CHANGED	(N7.0)	VSE/ESA

Time of last change made to the member.

Field Name	Type/Length	Operating System
TIME-CREATED	(N7.0)	VSE/ESA

Creation time of member.

Field Name	Type/Length	Operating System
USER-DATA	(A120)	OS/390, VSE/ESA

User data for the member.

Field Name	Type/Length	Operating System
USER-DATA-LENGTH	(N3)	OS/390, VSE/ESA

Length of user data for the member.

Field Name	Type/Length	Operating System
USER-DATE	(A14)	BS2000/OSD

Date the user specified for the element.

Field Name	Type/Length	Operating System
USER-DATX	(D)	BS2000/OSD

Date the user specified for the element in Natural format.

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

Time the user specified for the element.

Field Name	Type/Length	Operating System
USER-TIMX	(T)	BS2000/OSD

Time the user specified for the element in Natural format.

Field Name	Type/Length	Operating System
VERSION	(A2)	OS/390

Version of PANVALET access method.

Field Name	Type/Length	Operating System
VOLSER	(A6)	OS/390, VSE/ESA

Volume serial number.

Field Name	Type/Length	Operating System
VSAM-CATALOG	(A8)	VSE/ESA

Name of the VSAM catalog where the library is kept.

Field Name	Type/Length	Operating System
WRITE-PROTECTION	(A5)	BS2000/OSD

Protection attributes of element for WRITE.
Possible values are **Y** (yes) or **N** (no).

Protection Attribute	Meaning
Byte 0:	Special protection.
Byte 1:	OWNER can access.
Byte 2:	GROUP can access.
Byte 3:	OTHERS can access.
Byte 4:	Password defined.