

# JOB-VARIABLES

<b>File</b>	82
<b>Op-Sys</b>	BS2000/OSD
<b>Statement</b>	PROCESS, FIND
<b>Task</b>	Perform various job variable functions, for example, define and delete job variables, query and change job variable values.

---

## Common Fields for all Operating Systems

Dictionary Field Name	F/L	Mu	DE	Remarks
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N5		D	
NODE-NAME	A16		D	
SYSTEM-MESSAGE-CODE	A10			
SYSTEM-CODE	B2			
FUNCTION	A8		D	Required.
NAME	A54		D	Required.
SECOND-NAME	A54		D	Relevant with FUNCTION=WRITE or MODATTR only.
ACCESS	A5		D	Relevant with FUNCTION= MODATTR, ALLOC, ATTRIB.
SHARE	A3		D	Relevant with FUNCTION= MODATTR, ALLOC, ATTRIB.
READ-PASSWORD	A8		D	Relevant with FUNCTION= MODATTR, ALLOC, ATTRIB, WRITE
WRITE-PASSWORD	A8		D	Relevant with FUNCTION= MODATTR, ALLOC, ATTRIB.
RETENTION-PERIOD	N5		D	Relevant with FUNCTION= MODATTR.
SUBSTRING-START	N3		D	Relevant with FUNCTION=WRITE or READ only.
SUBSTRING-LENGTH	N3		D	Relevant with FUNCTION=WRITE or READ only.
CREATION-DATE	A8		D	Relevant with FUNCTION=ATTRIB only.
EXPIRATION-DATE	A8		D	Relevant with FUNCTION=ATTRIB only.
JV-TYPE	A10			Relevant when FUNCTION=ATTRIB
LENGTH	N3		D	Relevant when FUNCTION= ATTRIB, READ, WRITE.
DATA	A253		D	Relevant when FUNCTION=READ or WRITE.
DATA-APPENDIX	A3		D	Relevant when FUNCTION=READ or WRITE.
PASSWORD	A8		D	Relevant with all functions except ATTRIB.
CREATION-DATX	D			Relevant when FUNCTION=ATTRIB
EXPIRATION-DATX	D			Relevant when FUNCTION=ATTRIB
REPLACE	A3		D	Relevant when FUNCTION=ALLOC.
FROM-SUBSTRING-START	N3		D	Relevant when FUNCTION=WRITE.
FROM-SUBSTRING-LENGTH	N3		D	Relevant when FUNCTION=WRITE.

## Relevant Error Codes

Code	Text	BS2000/OSD
530	Access denied by Security Facility.	X
531	Password missing or incorrect.	X
600	Unknown function.	X
626	DATA missing.	X
699	Not enough main storage available.	X
733	User ID does not exist.	X
747	LENGTH or SUBSTRING-LENGTH invalid.	X
756	Job variable name missing or invalid.	X
799	Entire System Server internal error.	X
987	Job Variable already exists.	X
992	Requested job variable not found.	X

## Field Descriptions

Field Name	Type/Length	Operating System
ACCESS	(A5)	

Specifies whether access to the job variable is READ or WRITE. WRITE is the default. Valid with FUNCTION=MODATTR as input field. With ALLOC and ATTRIB, it is an output field.

Field Name	Type/Length	Operating System
CREATION-DATE	(A8)	

Only for FUNCTION=ATTRIB: The creation date of the job variable.

Field Name	Type/Length	Operating System
CREATION-DATX	(D)	

Creation date in Natural format.

Field Name	Type/Length	Operating System
DATA	(A253)	

Usage of this field depends on the function.

When FUNCTION=READ, contents of job variable or part of it (substring).

When FUNCTION=WRITE, value to be written (it is also possible to copy contents or substring from another job variable instead of data. Fields SECOND-NAME, FROM-SUBSTRING-START, FROM-SUBSTRING-LENGTH are relevant in this case).

Field Name	Type/Length	Operating System
DATA-APPENDIX	(A3)	

This field contains bytes 254-256 of job variable. Refer to DATA field for more details.

Field Name	Type/Length	Operating System
EXPIRATION-DATE	(A8)	

Only for FUNCTION=ATTRIB: The date after which the job variable can be erased.

Field Name	Type/Length	Operating System
EXPIRATION-DATX	(D)	

Expiration date in Natural format.

Field Name	Type/Length	Operating System
FROM-SUBSTRING-LENGTH	(N3)	

Only for function WRITE: Length of substring to be copied from job variable specified in SECOND-NAME. Required if FROM-SUBSTRING-START is specified.

Field Name	Type/Length	Operating System
FROM-SUBSTRING-START	(N3)	

Only for function WRITE: Start of substring to be copied from job variable specified in SECOND-NAME. If this is omitted, the entire job variable is copied.

Field Name	Type/Length	Operating System
FUNCTION	(A8)	

Function to be performed. Possible options:

Option	Explanation
ALLOC	Define a job variable.
ATTRIB	Retrieve information about a job variable.
DELETE	Delete a job variable.
LIST	Retrieve list of job variables (only NAME is valid for this function).
MODATTR	Modify characteristics of a job variable.
READ	Read value of a job variable.
WRITE	Set value of of a job variable, or copy from one job variable to another.

Field Name	Type/Length	Operating System
JV-TYPE	(A10)	

The type of job variable is returned in this field when FUNCTION=ATTRIB. Possible values are NUMERIC, NON-NUMERIC.

Field Name	Type/Length	Operating System
LENGTH	(N3)	

Usage of this field depends on the function.

When FUNCTION=ATTRIB, the size of the job variable (length of JV value).

When FUNCTION=READ, real length of data read.

When FUNCTION=WRITE, length of data to be written. This can also be specified in the field SUBSTRING-LENGTH. If DATA is given, both can be omitted.

**Note:**

SUBSTRING-START + LENGTH must not exceed 257.

Field Name	Type/Length	Operating System
NAME	(A54)	

Name of the job variable to be handled. With function LIST, the name can contain wildcards, but a name cannot start with an asterisk \*. Wildcards in catalog ID or user ID of the JV name are only allowed for user TSOS.

Field Name	Type/Length	Operating System
PASSWORD	(A8)	

Valid for all functions except FUNCTION=ATTRIB. If the job variable specified in NAME is password-protected, the appropriate password must be specified here.

Field Name	Type/Length	Operating System
READ-PASSWORD	(A8)	

Usage of this field depends on the function. Possible values with:

**FUNCTION=ATTRIB**

Value	Explanation
NONE	No password is defined.
YES	Read password is defined for job variable. If caller is TSOS and Entire System Server is running under TSOS, the password itself is returned.

**FUNCTION=ALLOC or MODATTR**

Value	Explanation
<blank>	Default. No read password.
password	New read password to be defined for job variable
*NONE	Reset existing password.

**FUNCTION=WRITE**

When copying from another job variable which is password-protected, the appropriate password for that job variable.

Field Name	Type/Length	Operating System
REPLACE	(A3)	

Only for function ALLOC. Possible values:

Value	Explanation
IGN	Default. Allocate job variable if it does not already exist and ignore allocate for existing job variable (corresponds to BS2000/OSD command DCLJV).
NO	Allocate job variable only if it does not already exist. If it already exists, Error 987 is returned.
YES	Allocate job variable and replace any existing job variable with the same name. The existing job variable is erased before allocation.

Field Name	Type/Length	Operating System
RETENTION-PERIOD	(N5)	

Only for FUNCTION=MODATTR. Specifies how many days the job variable must remain unchanged.

Field Name	Type/Length	Operating System
SECOND-NAME	(A54)	

When FUNCTION=MODATTR, new name when renaming job variable. No user ID can be specified. When FUNCTION=WRITE, input name when copying job variable.

Field Name	Type/Length	Operating System
SHARE	(A3)	

Specifies whether the job variable is accessible to other users.

Valid with FUNCTION=MODATTR as input field.

The value is returned with FUNCTION=ATTRIB or ALLOC. Possible options:

Option	Explanation
NO	Default. The job variable is not accessible to other users.
YES	The job variable is accessible to other users.

Field Name	Type/Length	Operating System
SUBSTRING-LENGTH	(N3)	

Usage of this field depends on the function.

When FUNCTION=READ, the length of substring to be read.

When FUNCTION=WRITE, the length of the substring to be written. This can also be specified in the field LENGTH. If DATA is given, both can be omitted.

**Note:**

SUBSTRING-START + SUBSTRING-LENGTH must not exceed 257.

Field Name	Type/Length	Operating System
SUBSTRING-START	(N3)	

Valid only with FUNCTION=READ or WRITE. Start position of substring, if only substring of the job variable is to be read or written. Maximum value is 256.

Field Name	Type/Length	Operating System
WRITE-PASSWORD	(A8)	

Usage of this field depends on the function. Possible values with:

**FUNCTION=ATTRIB**

Value	Explanation
NONE	No password is defined.
YES	Write password is defined for job variable. If caller is TSOS and Entire System Server is running under TSOS, the password itself is returned.

**FUNCTION=ALLOC or MODATTR**

Value	Explanation
<blank>	Default. No write password.
password	New write password to be defined for job variable.
*NONE	Reset existing password.