

# GETARCHSTRUCT

## GETARCHSTRUCT actions

### Functions

Bulk read of archive values.

### Declaration

```
GETARCHSTRUCT archIdent, locRecDstIdent, timeIdent_TmA, statusIdent_Int
```

### Parameters

archIdent	in	<a href="#">Reference</a> to: <ul style="list-style-type: none"><li>object of <a href="#">Structured variable</a> type,</li><li><a href="#">local variable</a> of <i>Record</i> type,</li><li><a href="#">structured historical value</a>.</li></ul>
locRecDstIdent	output	<a href="#">Local variable</a> - read result.
timeIdent_TmA	in	<a href="#">Identifier</a> of <i>Absolute time</i> type.
statusIdent_Int	output	Read success.
archiveInstance_Int	in	Optional identifier of <i>Int</i> type - identification of <a href="#">archive instance</a> . If the parameter is not defined, the value 0 will replace it.

### Description

The parameter *archIdent* represents structure or structured historical value. For each item, the action generates a request for reading its historical value in given time (the parameter *timeIdent\_TmA*). Read result of each item is written into corresponding item of the local variable *\_locRecDstIdent*. The action resizes the local variable if necessary. The structure types of the parameters *archIdent* and *\_locRecDstIdent* must be the same.

The parameter *archIdent* can be defined by one of the following ways:

#### 1. Local variable of „typed ALIAS“ type

Example:

```
ALIAS (structure definition) _IAT
SET _IAT AS SV.Struct
GETARCHSTRUCT _IAT, ...
```

Individual read requests are ALWAYS addressed to items of the structure *SV.Struct* (even if any of the items are of *Object* type).

#### 2. Object of *Structured variable* type

Example:

```
GETARCHSTRUCT SV.Struct, ...
```

Request addressing is the same as described in the article 1.

#### 3. Local variable of *Record* type

Example:

```
RECORD (structure definition) _IRec
REDIM _IRec[1]
```

```
SET _IRec[1]^Item1 AS Sec
SET _IRec[1]^Item2 AS SysTime
SET _IRec[1]^Item3 AS M.MeranyBod
.....
```

```
GETARCHSTRUCT _IRec, ...
```

All the columns of the structure definition must be of *Object* type. Individual read requests are to be addressed to the objects the row items refer to.

If any item does not refer to object, the action is to be terminated and returns the `ERR_NO_ASSIGNED_ALIAS` error.

#### 4. Structured archive object

Example:

```
GETARCHSTRUCT H.Struct, ...
```

Individual read requests are to be gradually addressed to all items. The object *H.Struct* cannot be a [one-column historical value](#).

Value of parameter *archiveInstance\_Int* defines the instance of archive which executes the request. If the parameter is not defined (or the value is 0), the active instance of archive will execute the request.

#### Example

[GETARCH\\* actions - example.](#)



#### Related pages:

[Script actions](#)