Command Reference: For()

Start a block of commands as part of a "for" loop

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This command is under development.

The For () command iterates through a block of commands between For () and matching EndFor () commands. A processor property is set to the value of the iteration property. Looping is useful in particular in cases where a single data property is being changed for a block of commands. This command is an alternative to implementing loops in templates (see ExpandTemplateFile()), in particular for straightforward command logic. Currently For () commands can only iterate over a list of values from a table column but in the future the ability to loop over a list of numbers or other data will be enabled. For () commands currently cannot be nested, but this capability is planned for the future.

The following dialog is used to edit this command and illustrates the command syntax.

	 Edit For() command 			X			
	This command is under development. Nested For() loops are not supported. This command starts a "for loop", which repeatedly executes a block of commands while changing the value of an iterator variable each iteration. The iterator value is set as a processor property that can be accessed by other commands using the \${Property} notation. Currently values from a table column can be used as the list of values for iteration (iterator through numbers will be added later). Use an EndFor() command with matching name to indicate the end of the for loop.						
۱	For loop name:	TestFor	Required - the name will be matched against an EndFor() comman	nd name.			
	For loop iterator property:		Optional - name of iterator property for iteration (default=for loo	p name).			
	Table						
	The for loop can iterate using the values from a table column. If necessary, copy a subset of values from a table using CopyTable() and other table commands.						
	Table ID: Table 1		▼ Required - identifier for t	able.			
	Table column: StationID		Required - name of table	column.			
	For (Name="TestFor", TableID="Table1", TableColumn="StationID") Command:						
			Cancel OK				

For() Command Editor

For_Table

The command syntax is as follows:

For (Parameter=Value,...)

Command Parameters

Parameter	Description	Default
Name	The name of the "for" loop, which will be matched with the name of an EndFor () command to indicate the	None – must be specified.
	block of commands in the loop.	

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Parameter	Description	Default
IteratorProperty	The processor property that will be set to	Same as Name.
	the iterator property. The object type	
	will depend on that used to provide the	
	iteration property list. For example, if a	
	column of strings from a table is used for	
	iteration, the property will contain a	
	string.	
TableID	The table identifier, when specifying the	None – must be specified.
	iterator as a column from a table.	
TableColumn	The table column name, when specifying	None – must be specified.
	the iterator as a column from a table.	

The following example illustrates a simple For () and EndFor () usage. In this example the StationID column in the input table is used to provide the list of values to iterate over. The following input table is a delimited file but could come from another source:

```
# Test table data for For() command tests
"Count", "Val", "StationID", "Basin"
1,1.0, Station1, Basin1
2,2.0, Station2, Basin2
3,3.0, Station3, Basin3
4,4.0, Station4, Basin4
```

The following command file reads the above input table, iterates over the StationID column, and creates a simple output file:

The resulting output file is as follows:

```
TestFor="Station1"
TestFor="Station2"
TestFor="Station3"
TestFor="Station4"
```