COMBINE#

COMBINE# combines parameter values from a recursive Telitab set or group of objects in a single Telitab set

Syntax

1. COMBINE#(Telitab$, Attribute$, ObjectName$, Par[Lab$]_1, Par[Lab$]_2, ... , Par[Lab$]_n)
2. COMBINE#(Object, Attribute$, ObjectName$, Par[Lab$]_1, Par[Lab$]_2, ... , Par[Lab$]_n)

Arguments

- The first argument is either an Object or String expression containing Telitab data.
- Attribute$ is an optional name of an attribute (without preceding "@") that has to be present in the dataslot of the objects in which data has to be gathered.
- ObjectName$ is an optional name of the Object instances in which data has to be gathered.
- Par[Lab$]_1, Par[Lab$]_2, ... , Par[Lab$]_n are the labels of parameters to be included in the Telitab result.

Remarks

1. The COMBINE# function returns a Telitab with values from parameters that are included as label arguments. This makes it possible to collect parameters from all objects within a certain calculation.
2. This function can, for example, be used to create overviews or summaries of calculations.

Examples

The function

EMotors# = COMBINE#(@Heatbalance, "NullString", "EMotor", "ID$", "PowerReq", "Power", "Etha", "Connection$")

returns a Telitab String containing the list of electric motors (EMotor objects) in the object tree Heatbalance, so including the values of the parameters "ID$", "PowerReq", "Power", "Etha" and "Connection$".

If the electric motors in the system are contained in objects with different names, indicating types of motors, e.g. EMOTORDC and EMOTORAC, these objects can be provided with an @EMOTOR attribute in its data slot that would make the expression:

EMotors# = COMBINE#(@Heatbalance, "EMOTOR", "NullString", "ID$", "PowerReq", "Power", "Etha", "Connection$")

These attributes are user defined and no standard Quaestor attributes. The result could for example be:

	0					
5	"ID$"	"PowerReq"	"Power"	"Etha"	"Connection$"
"1"	"Dredge.Pump.1.Bearing.Gearbox.EMotor"	2082	2192	0.950	"Shaft generator"
"2"	"Dredge.Pump.2.Bearing.Gearbox.EMotor"	2051	2159	0.950	"Shaft generator"
"3"	"Jet.Pump.1.Bearing.EMotor"	510	537	0.950	"Shaft generator"
"4"	"Jet.Pump.2.Bearing.EMotor"	503	528	0.950	"Shaft generator"
"5"	"Bowthruster.1.EMotor"	200	204	0.980	"Diesel generator"
"6"	"Bowthruster.2.EMotor"	200	204	0.980	"Diesel generator"

The function is not started before Heatbalance$ is created, so this can be used to make sure that the COMBINE# function is started at the end of de process, when all parameters to be combined are known by the system.

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