

Workbase

In Quaestor the [Workbase](#) facilitates the dialog with the user when a **solution** is modelled. Furthermore, it provides access to the present dataset and solutions in a selected knowledge base.

The screenshot shows the Workbase window titled 'Workbase[Top Goals/Undefined (Dataset of ships as Telita)'. It features a tree view on the left, a parameter table in the center, and a multi-case parameter table at the bottom. Numbered callouts identify the following elements:

- 1 Dataset and Solutions:** Points to the tree view on the left showing 'Dataset [Tutorial5finish]' and its sub-items 'Ships', 'Resistance\$', 'Ship_data\$[All List Value]', and 'Hull'.
- 2 Presentation options:** Points to the top right area containing dropdown menus for '[Internal] Name only' and 'All'.
- 3 Single value parameters:** Points to the central table with columns 'Parameter', 'Value', and 'Dimension'.
- 4 Calculation control buttons:** Points to the row of buttons (Play, Stop, Pause, etc.) below the parameter table.
- 5 Multi case parameters:** Points to the table at the bottom with columns 'Ship_no', 'B [m]', 'BM [m]', 'DISP [t]', 'GM [m]', 'GM_rounded [m]', 'Lpp [m]', and 'Moment_of_Inertia [m^4]'.

Parameter	Value	Dimension
Cb	0.55	-
Hull	Object	Obj
KB	4.20	m
KG	4.80	m
Rho	1,025.00	kg/m^3
T	6.00	m
Watertype\$	SW	Str

Ship_no	B [m]	BM [m]	DISP [t]	GM [m]	GM_rounded [m]	Lpp [m]	Moment_of_Inertia [m^4]
#1 = 1.00	9.00	0.93	1,674.34	0.33	0.3	55.00	1,526.10
#2 = 2.00	9.00	0.93	1,735.99	0.33	0.3	57.00	1,581.60
#3 = 3.00	9.00	0.93	1,856.99	0.33	0.3	59.00	1,637.09
#4 = 4.00	9.00	0.93	1,956.99	0.33	0.3	61.00	1,692.59

The [Workbase](#) window

Please note that the figure shows the window with the classic buttons. In addition to this buttons the [Workbase buttons](#) are introduced which are now the default setting. You can switch between default and classic buttons by using the button on the right side (right of the colored information bar).

1. The **Datasets and Solutions** field shows data objects used as input for calculations (dataset node) and all solutions that are performed. Solutions are generally presented as [SolutionName(Dataset)]. Solution options (e.g. delete, recalculate etc.) are performed by right clicking a solution node.
2. The **Presentation Options** fields direct the output and presentation of the workbase.
3. In the **Single value parameters** field, parameters are shown that are independent of the case.
4. The **Calculation control buttons** (or [Workbase buttons](#) in their minimised shape) can start, stop or pause solutions. Furthermore they provide access to the process manager and filter options.
5. The **Multi Case parameters** field shows a table of parameters that are case-dependant, each row representing a different case.

Please note that the [Explanation](#) windows, the [Knowledge Browser](#), the [Frame Viewer](#) and the [Properties](#) follow the selection in the [Workbase](#). Moreover, the [Workbase](#) provide information on the parameter values by means of [colors and font styles](#), such as the top goal (one or more parameter (s)) of the solution is presented in **bold** characters.

While browsing in the [Workbase](#), in the [Frame Viewer](#) or [Explanation](#) window information is presented on the value. When the [Explanation](#) window is used, it will depend on the settings in the [Explanation tab of the Options window](#) what kind of information you will see.



By right clicking in the [Workbase](#) several options are presented for the solutions or database

Whether options in this menu are enabled will depend on the several factors such as user level, position in the dialog with the user during creation of a solution, etc. Moreover, please note that the menu item Solution provides access to a sub-menu. Furthermore, shortcut keys to all these options are shown behind the text.

The combo boxes above the [Workbase](#) provide the possibility to select specific overviews (selections) and way of presentation of the information in the [Workbase](#). The combo box on the left shows all cases and makes it possible to filter a solution to present the information related to a selected class only. The combo box in the middle enables the user to select the way of presenting the parameters in the solution:

(Internal) Name only
Name and (Internal Name)
Reference only
Reference and {(Internal) Name}

Options to present parameter names

The figure above shows that besides one type of name, a combination can be made. The "(Internal) Name" is the name of the parameter. When the [Frame Viewer](#) was briefly discussed, the possibility to provide explaining information in a reference was mentioned. For your convenience in addition to this "Reference" Quaestor enables you to use more understandable names for parameters without changing an internal name. By adding a name between braces ({}) behind the parameter name in the [Knowledge Browser](#), the [Knowledge Engineer](#) can define a presentation name:

ParameterName{PresentationName}

PresentationName is shown when the system is in user mode (as [End-user](#) or [Domain Expert](#)). Go to [Documentation of knowledge](#) for more details on the way to present your knowledge. If you are using the knowledge base and knowledge engineer, the internal ParameterName is shown.




The combo box on the right side enables the user to filter the information in the solution on the basis of the type of information:

All

Top Goal(s)
Top Goal(s) & Input Values
Derived Intermediate Values
Requested by Modeller
Text Documents

Options to filter information in a solution

In this box the "Top Goal(s)" are the one(s) selected at start of configuring the solution.

To control the dialog, the request for input and choices by the knowledge based system, the [Workbase](#) contains either [Workbase buttons](#) or the classic dialog buttons. When the [Workbase buttons](#) are not selected, the recorder buttons play  , pause  and stop  are presented in the [Workbase](#) , press the far right button (right of the colored information bar) to switch to the [Workbase buttons](#).

The play button is used to restart an existing solution or, when a top goal is selected (double clicking a parameter in the [Knowledge Browser](#)...), to start a new solution based on the selected top goal(s). The or "select" button (next to the recorder buttons) will start the [Process Manager](#). When enabled (see [the Appearance tab in the Options window](#)), the or "local" button next to the process manager button, makes it possible to switch between inherited data (data in the present object and all data in the level above this object) or local data (only in the selected object). By pushing the local data will be shown and by pushing the same button again (with en I) inherited data is shown again. Inherited data is also shown in a blue font.

The filter or F button provides access to a filter dialog enabling the user to filter the data in the selected solution comparable to a database filter:

Filter Values

Parameter	Filter	Value(s)	Lower bound	Upper bound	Contains
DESPCODE	(None)				
IE					
Lcb_FP					
LPP					
LWL					
Project					
Vdesign					

☐ Global

Apply

Report

Filtertab

Restore

Clear

Cancel

Example of the Filter dialog

[Quaestor interface](#)