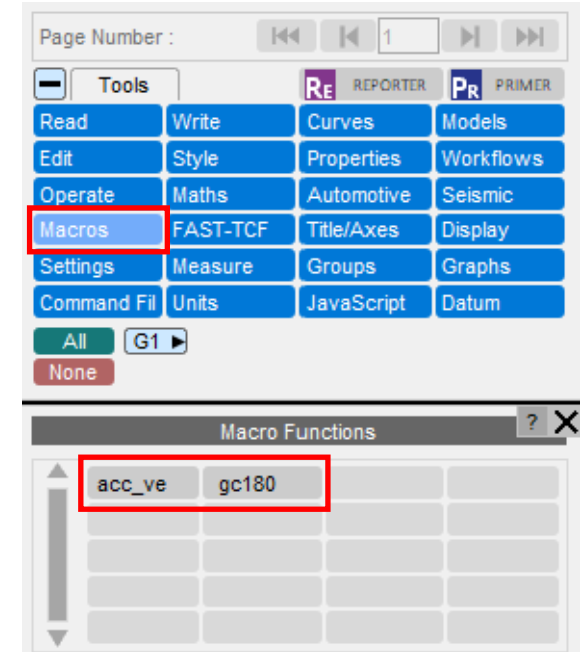


# Macros



# About Macros

- Macros allow quick access to common sequences of user defined operations.
- Each macro is a FAST-TCF script with some additional lines specific to macros and extension .thm.
- T/HIS creates a button for each macro, for quick access.
- By default, macros are stored under \$OA\_INSTALL\this\_library\macros. They also can be kept in a subdirectory that is defined by the user.



# Example 1 – Macro with one Curve as Input

- Input names are variables, so use '\$' when referring within main part of script, e.g. \$input\_curve.
- Inputs to the macro can be curves or constants.
- Curves can be selected from the **MACRO Input Curves(s)** menu or inputting the curve id's into the **input curve file** text entry box.
- To apply the macro to the curve(s) selected from the **MACRO Input Curves(s)** sub menu, click the bottom **Apply** button.
- To apply the macro to the curve(s) inputted into the **input curve file** text entry box, click the top **Apply** button.

```

gc180 Macro Description
#
# Apply C180 filter, then mm/s^2 to g
#
macro acr gc180
macro title convert to g, C180
macro curve input_curve input curve file
#
operation c180 $input_curve tag curve_2
operation div curve_2 9810 tag curve_3

```

The screenshot shows the 'Macro Functions' dialog box. The 'acc\_ve' field is set to 'gc180'. The 'Apply' button is highlighted. Below the dialog, the 'Macro Curve Inputs' section shows the 'input curve file' field with the values '#1 #2 #3'. Below that, the 'MACRO Input Curve(s)' sub-dialog is shown with the 'Apply' button highlighted. The 'All Listed' button is also highlighted. The 'Visible (Page)' button is highlighted. The 'Key in:' field is empty. The list of curves is shown below:

Curve ID	Description
#1	(M1) Disp mag - Node 3432
#2	(M1) Current Vector - Node 3432
#3	(M1) Z Co-ordinate - Node 3432

# Example 2 – Macro with one Curve and one constant as Input

## acc ve Macro Description

```
#  
# Converts velocity into accel, with  
# user-defined g-value  
#  
macro acr acc_ve  
macro title accel from vel  
macro curve input_curve input_curve file  
macro constant gvalue accel due to gravity  
#  
operation dif $input_curve tag curve_2  
operation div curve_2 $gvalue tag curve_3 #
```

The screenshot shows the 'Macro Functions' dialog box. At the top, there is a table with columns for macro name, title, and input. The first row is 'acc\_ve' with title 'gc180'. Below the table are 'Apply' and 'Cancel' buttons. Under 'Macro Curve Inputs', there is a field 'velocity-vs-time curve' with values '#1 #2'. Under 'Macro Constants', there is a field 'accel due to gravity' with the value '9810'. At the bottom, there is a section 'MACRO Input Curve(s)' with buttons 'Apply', 'Cancel', 'All Listed', 'None', 'Visible (Page)', 'Show Groups', 'Pick Visible', and 'Filter...'. Below these buttons is a 'Key in:' field. At the very bottom, there is a list of curves: '#1 : (M1) Disp mag - Node 3432', '#2 : (M1) Current Vector - Node 3432', and '#3 : (M1) Z Co-ordinate - Node 3432'.

Macro Name	Title	Input
acc_ve	gc180	

Apply Cancel

Macro Curve Inputs  
velocity-vs-time curve #1 #2

Macro Constants  
accel due to gravity 9810

MACRO Input Curve(s)

Apply Cancel

All Listed None Visible (Page) ▶

Show Groups Pick Visible Filter...

Key in:

#1 : (M1) Disp mag - Node 3432  
#2 : (M1) Current Vector - Node 3432  
#3 : (M1) Z Co-ordinate - Node 3432

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