

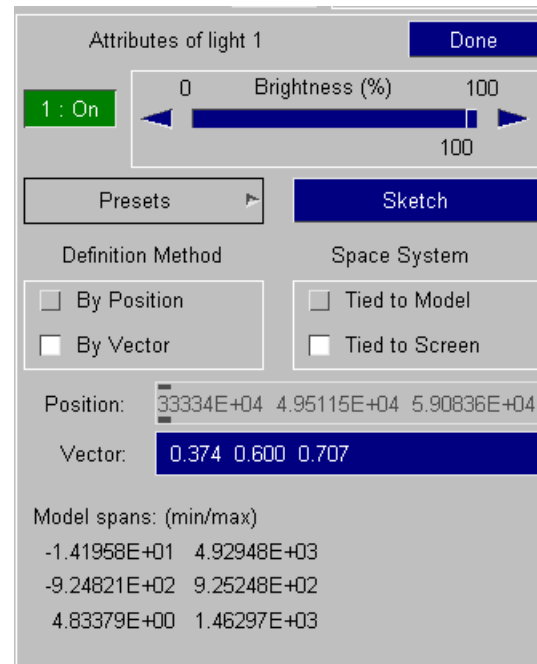
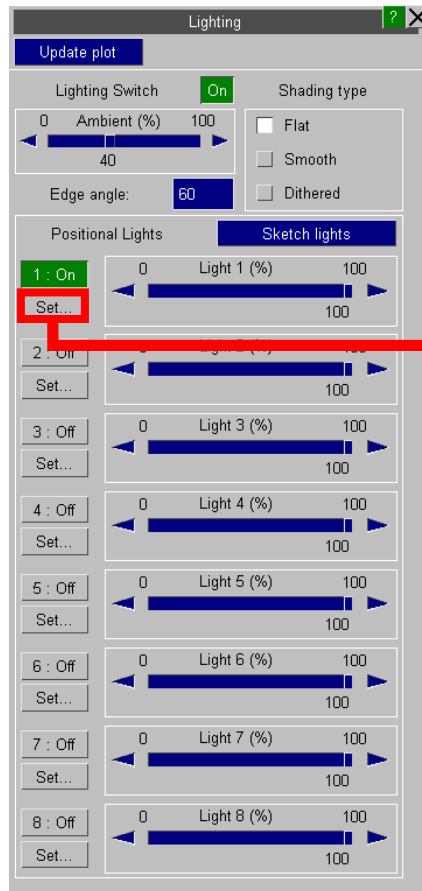
# Oasys Post Processing Update

**March 2019**

# Oasys D3PLOT v16.0

# Model Visualization

# Lighting Panel



# Material Attributes

New in D3PLOT 16, the Material Attributes panel allows for a greater range of part-specific colour and lighting control.

The image shows the D3PLOT software interface. At the top left, the 'Page Number' is 1. Below it is a menu bar with 'D3PLOT', 'THIS', 'PRIMER', 'Tune', and 'Memory'. A grid of buttons includes 'Attached', 'Deform', 'Measure', 'Utilities', 'Blank', 'Disp opt' (highlighted with a red box), 'Prop', 'Vol Clip', 'Colour', 'Entity', 'Trace', 'Write', 'Cut Sect', 'Groups', 'User Data', and 'XY Data'. A search icon and buttons for 'Data', 'Part Tree', 'JavaScript', and 'Layout' are at the bottom left. A 'Display Attributes' panel is shown, with 'Material Attributes' highlighted in a red box. A red arrow points from the 'Disp opt' button to this panel. The main 'Material Attributes' window is open, featuring a 'Use Material Attributes' checkbox, 'Smooth Shading', and 'Dismiss' buttons. It is divided into three sections: 'Available Materials' (with 'Select', 'Save', and 'Reload' buttons), 'Properties', and 'Select Parts'. The 'Available Materials' section shows a tree view with 'Paints' (Red, Green, Blue) and 'Plastic'. The 'Properties' section shows a red sphere preview, a 'Name' field set to 'Red', 'Mode' options (Simple, Advanced), a 'Raw colour' palette, and sliders for 'Brightness %', 'Matte (0) to Shiny (100)', and 'Transparency %'. The 'Select Parts' section shows a list of material attributes for various parts, including 'P1: Bumper Plate (1920 Shell(s), M', 'P2: Bumper Honeycomb (1920 Sol', 'P3: Adhesive - Bumper Core to Bu', 'P4: Adhesive - Bumper to Cladding', 'P5: Bumper Null Shells (2016 Shell', 'P6: Bumper Internal Null (1440 Shell', 'P7: Cladding (10560 Shell(s), Matt 2', 'P8: Adhesive - Cladding to Backplat', 'P9: Adhesive - Core to Backplate (', 'P10: Adhesive - Cladding to Core (', 'P11: Core Null Shells (4224 Shell(s)', 'P12: Core Internal Null (16320 Shell', 'P13: Core Honeycomb P1 (3840 Sol', 'P14: Core Honeycomb P2 (3840 Sol', 'P15: Core Honeycomb P3 (4800 Sol', 'P16: Core Honeycomb P4 (4800 Sol', 'P17: BackPlate (1200 Shell(s), Matt', 'P18: Mounting Strip (240 Shell(s), M', 'P19: Concrete Base (Centre) (1752', 'P20: Concrete Base (Side) (760 Sh', 'P21: Loadcell (1200 Solid(s), Matt 7', and 'P1000: H3-50 HEAD - NULL SHELL'.

# DEMO

# Material Attributes



# Material Attributes





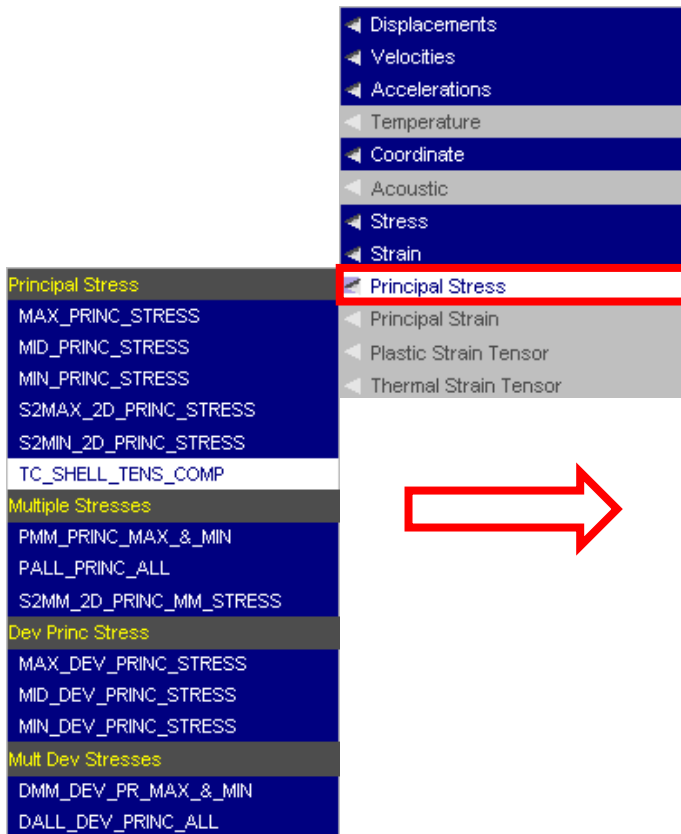
# Material Attributes



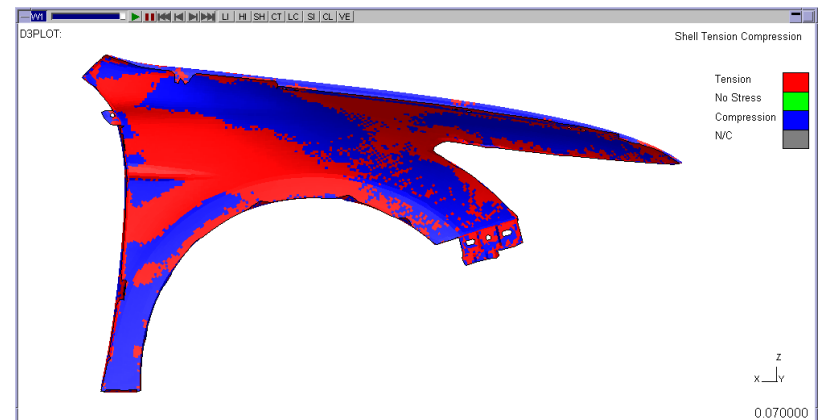
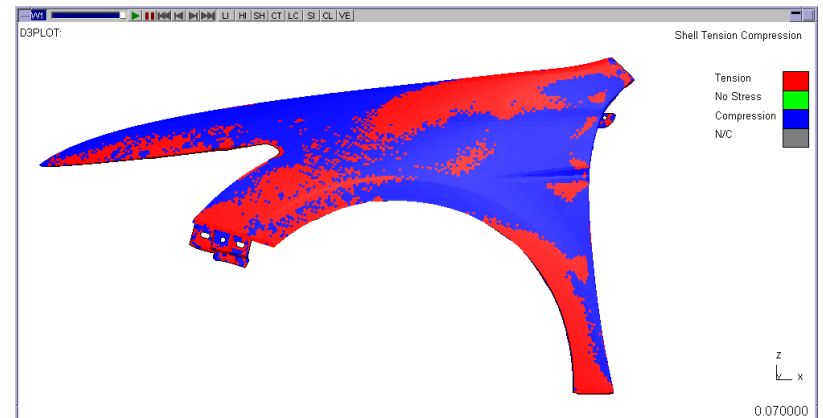
# Data Components

# New Data Components – Shell Tension/Compression

D3PLOT 16 can display a component that shows whether the surface of a shell that the user can see is in tension or compression. The contour colours on the top and bottom surface of the shell can be different colours, e.g. if the shell is in bending.

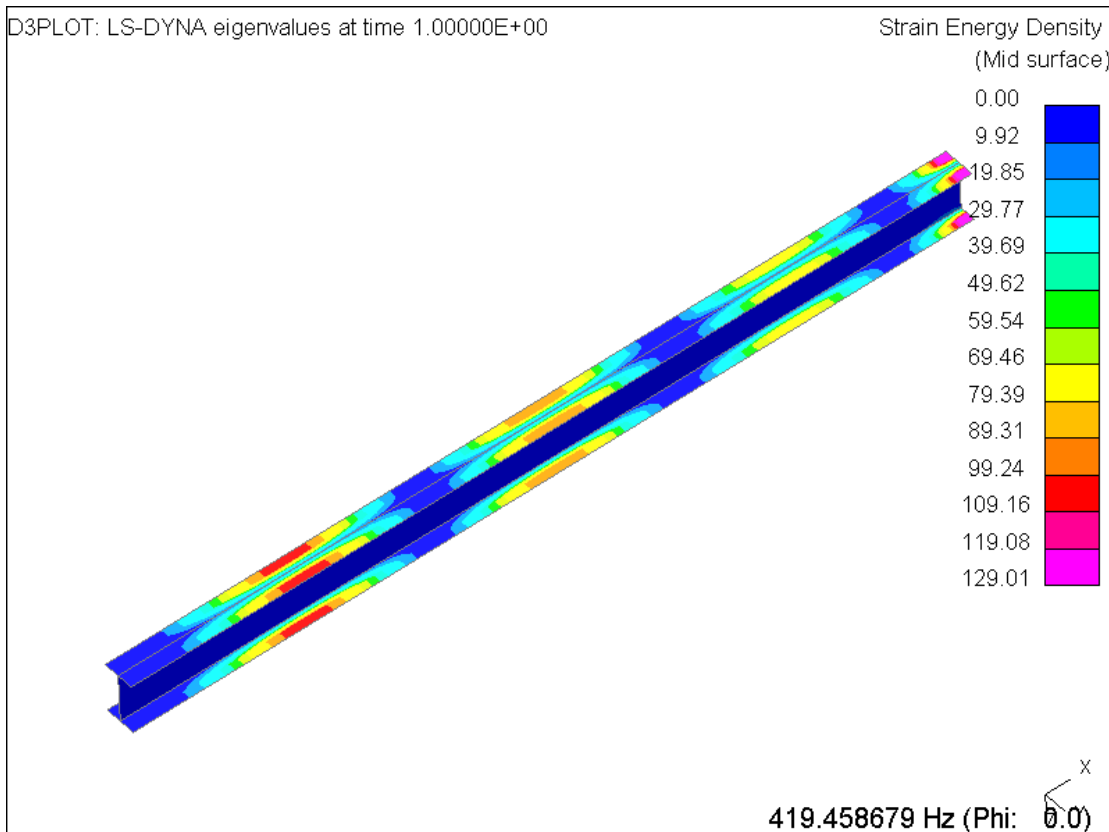


Front and back views of the same part, showing some areas of shells in bending



## New Data Components – Strain Energy Density

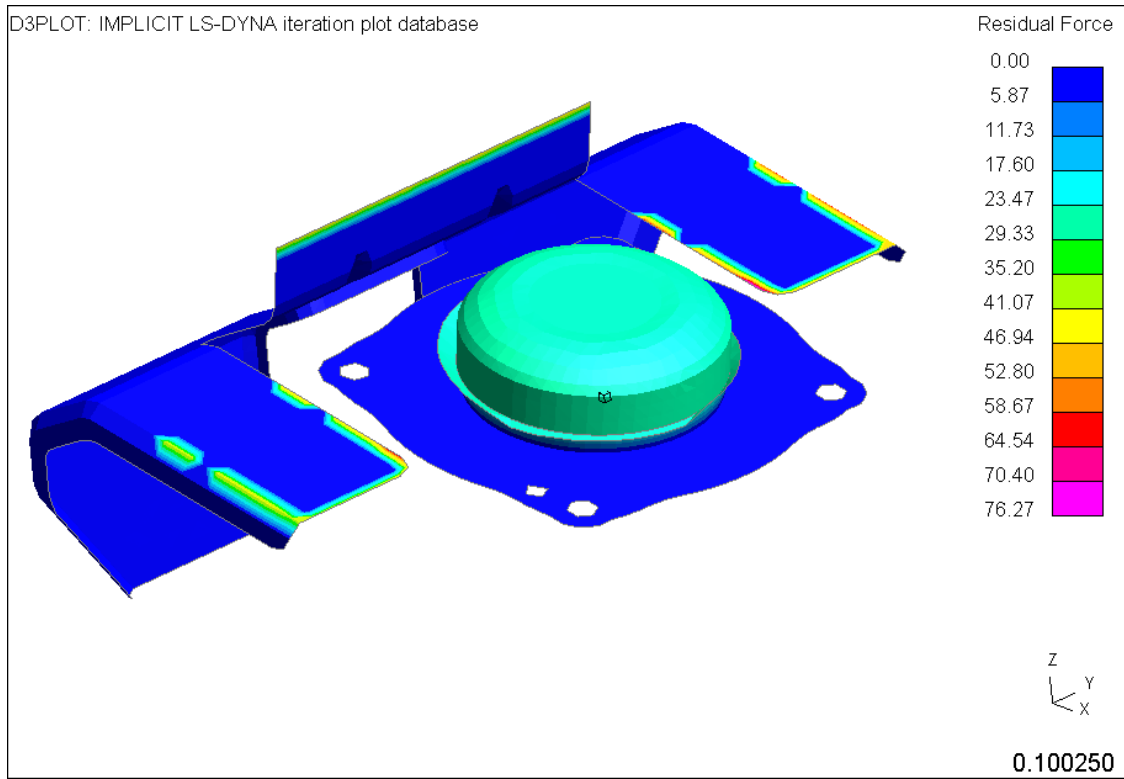
D3PLOT 16 can now read and display the Strain Energy Density values output to the “d3plot” and “d3eigv” files for Solids, Shells and Thick Shells by setting ISED on \*DATABASE\_EXTENT\_BINARY\_COMP.



Category :	Element Energies
Component :	SED_STRAIN_ENERGY_DENSITY
Contours :	Element Energies (LS-DYNA)
Max & Min :	SED_STRAIN_ENERGY_DENSITY
Envelope :	INTERNAL_ENERGY_DENS HOURGLASS_ENERGY
Int pt :	Element Energies (NASTRAN)
Ref frame :	SEN_STRAIN_ENERGY
Magnitude :	SENP_STRAIN_ENERGY_PERCE
Averaging :	SEND_STRAIN_ENERGY_DENSIT KEN_KINETIC_ENERGY KENP_KINETIC_ENERGY_PERCE KEND_KINETIC_ENERGY_DENSIT ENL_ENERGY_LOSS ENLP_ENERGY_LOSS_PERCENT ENLD_ENERGY_LOSS_DENSITY

# New Data Components – Residual Forces/Moments

D3PLOT 16 can now read and display the Residual Forces and Moments that can be written to the d3iter file by setting D3ITCTL=1 on \*CONTROL\_IMPLICIT\_SOLUTION

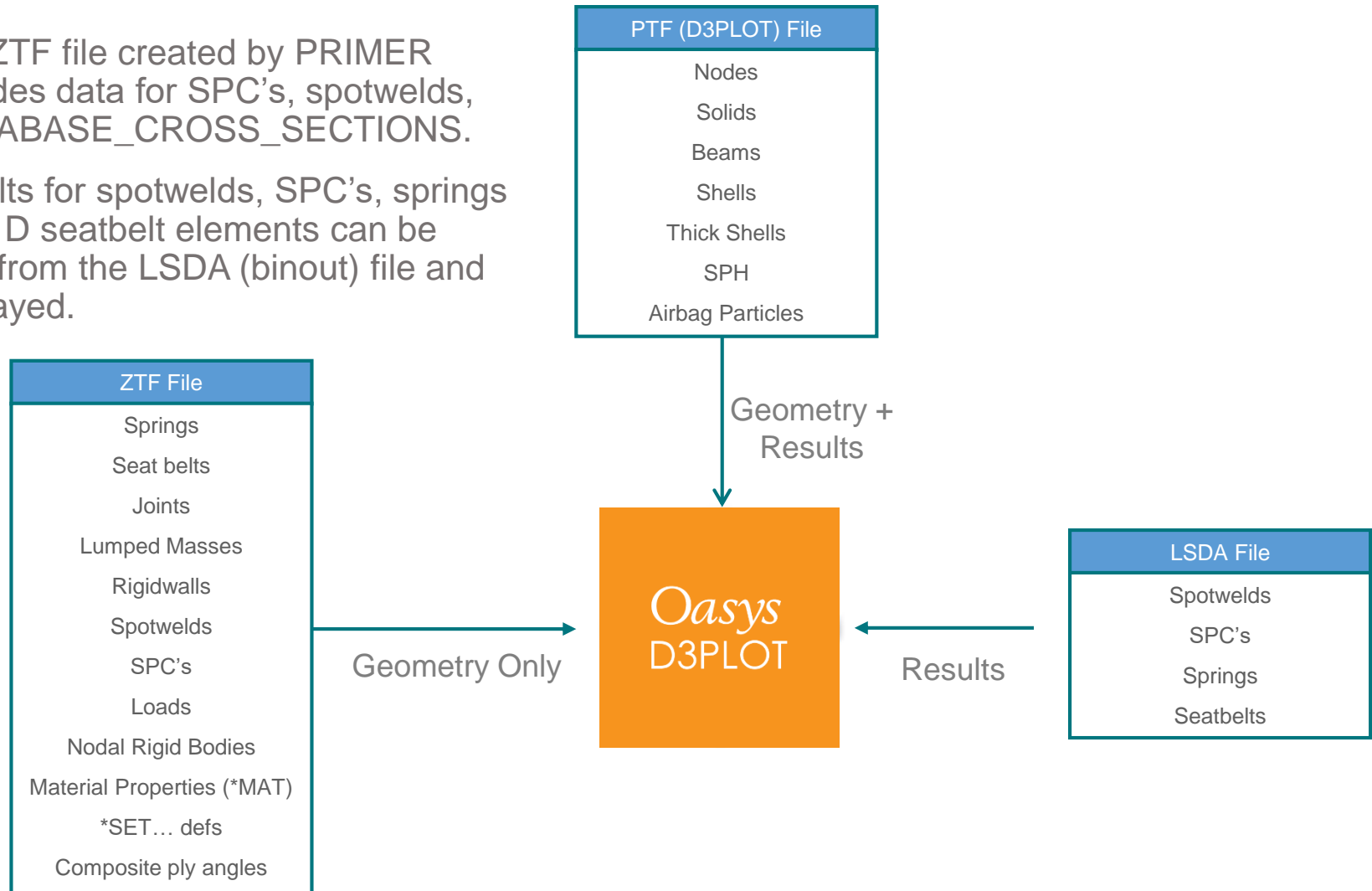


Category :	Residual Forces/Moments
Component :	RSFR_RESIDUAL_RESULTANT_F
Contours :	Residual Nodal Forces
Max & Min :	RSFX_RESIDUAL_X_FORCE
Envelope :	RSFY_RESIDUAL_Y_FORCE
Int pt :	RSFZ_RESIDUAL_Z_FORCE
Ref frame :	RSFR_RESIDUAL_RESULTANT_F
Magnitude :	RSMX_RESIDUAL_X_MOMENT
Averaging :	RSMY_RESIDUAL_Y_MOMENT
	RSMZ_RESIDUAL_Z_MOMENT
	RSMR_RESIDUAL_RESULTANT_M

# ZTF - Displaying Loads

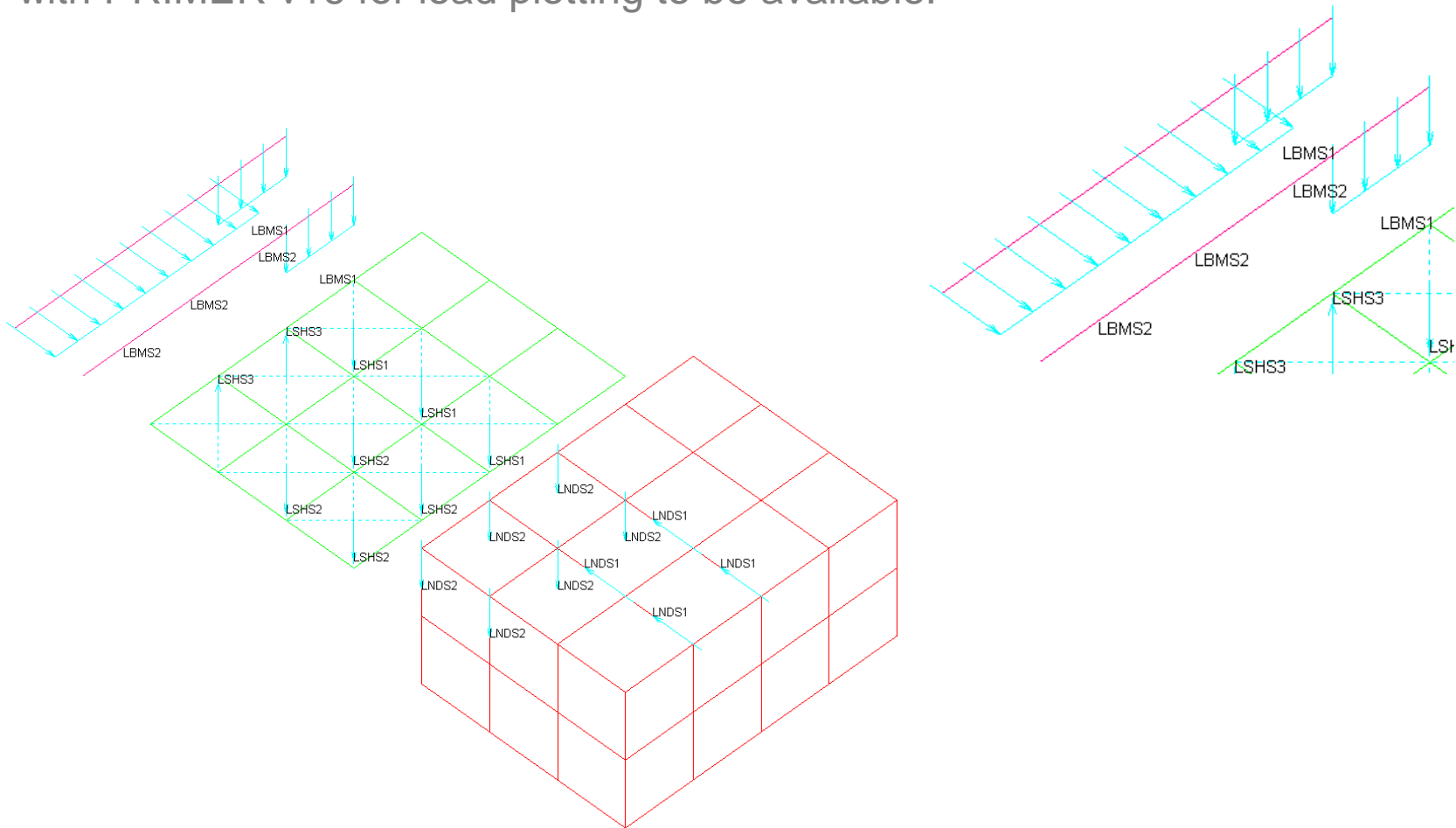
# Data Read into D3PLOT

- The ZTF file created by PRIMER includes data for SPC's, spotwelds, \*DATABASE\_CROSS\_SECTIONS.
- Results for spotwelds, SPC's, springs and 1D seatbelt elements can be read from the LSDA (binout) file and displayed.



# Displaying Loads

D3PLOT v16 introduces the ability to display loads on the model. Load information is transferred to D3PLOT via the ZTF file, so it is necessary to generate a ZTF file with PRIMER v16 for load plotting to be available.

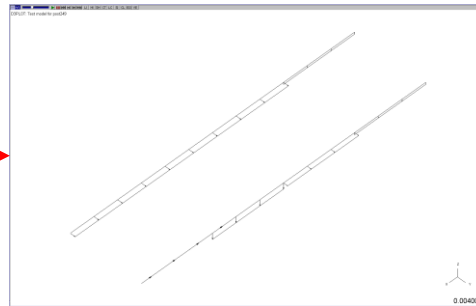
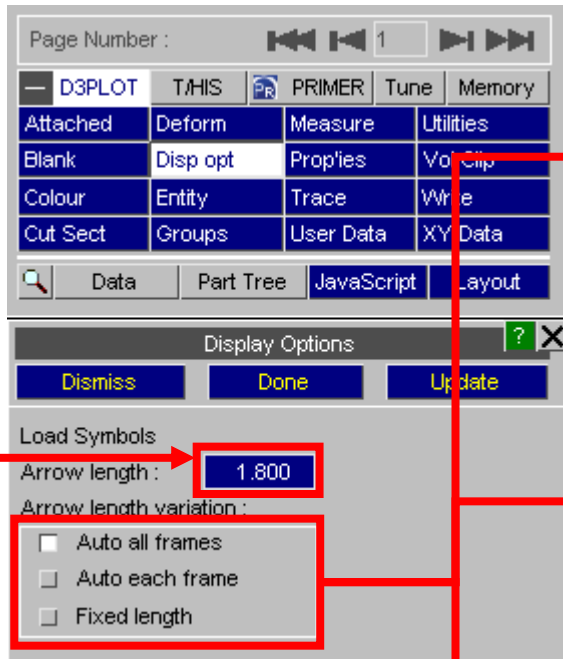




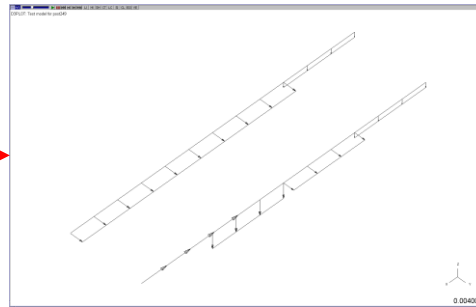
# Displaying Loads

The display of loads can be controlled in Disp opt >> Loads

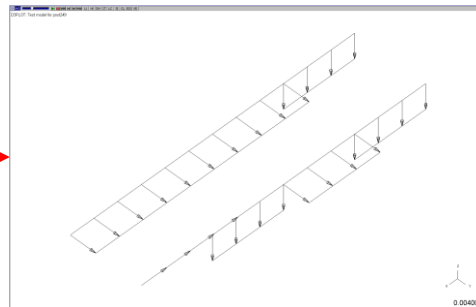
The size of load symbols can be adjusted.



Auto all frames – load symbols normalised to maximum value across all states – as you step through states loads will ‘grow’.



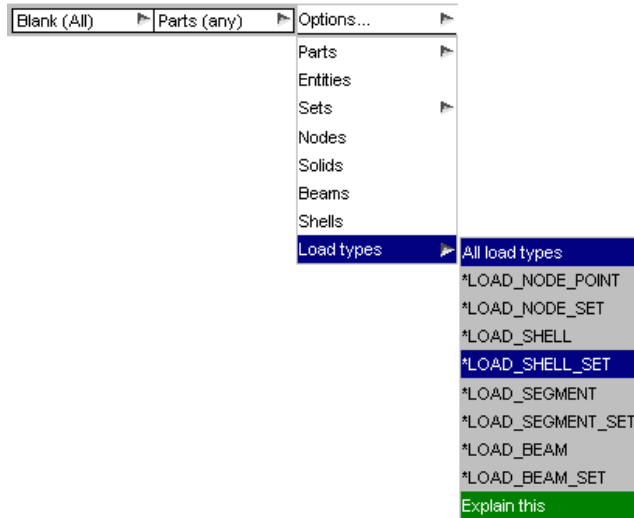
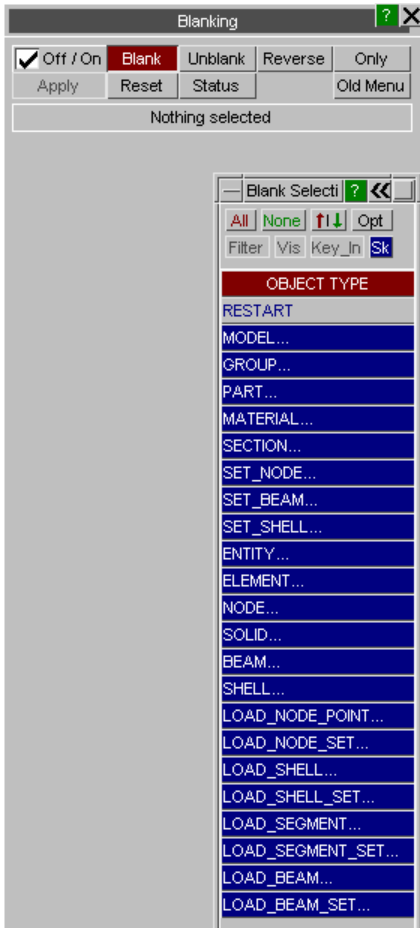
Auto each frame – load symbols normalised to maximum value in current state – shows distribution but not time variation.



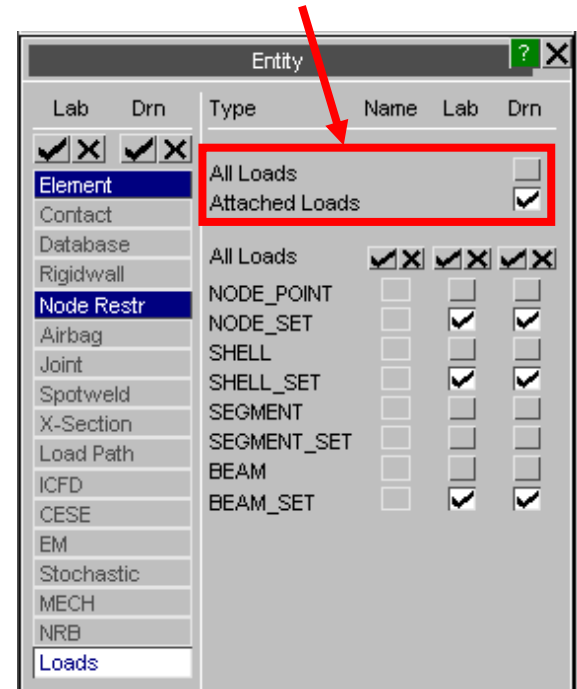
Fixed length – load symbols all shown with fixed length.

# Displaying Loads

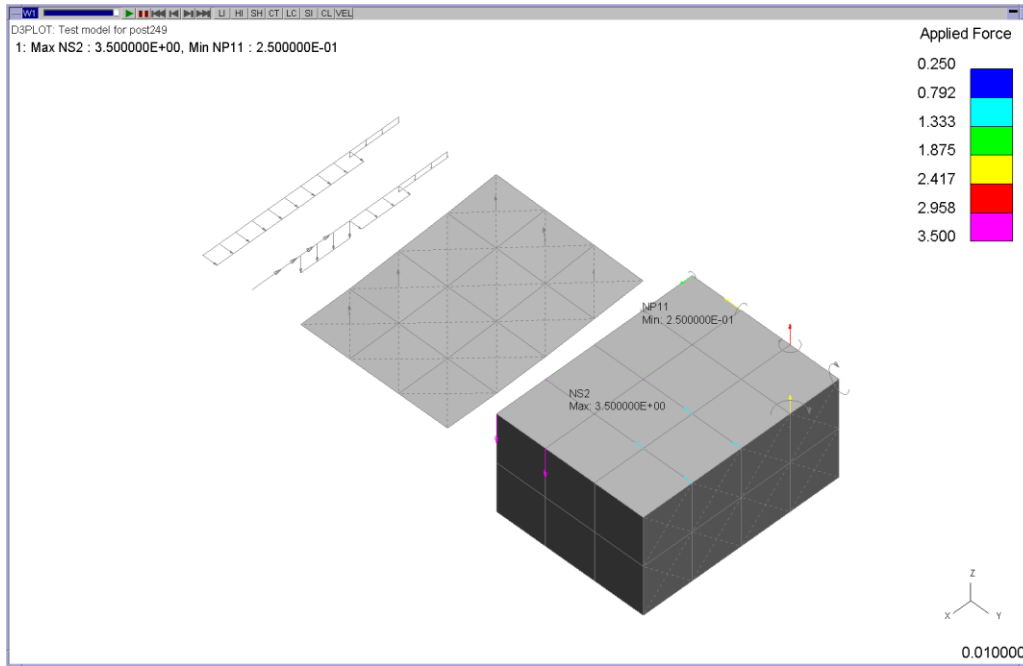
Loads can be blanked via the Blanking menu or using Quick Pick



Loads can be set to be shown only when the node or element they are applied to is visible, or to always be shown.



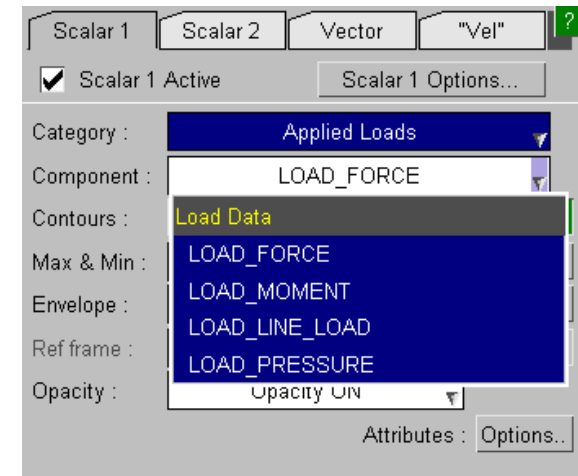
# Displaying Loads



Loads can be contoured in CT and SI plot modes

A new component category “Applied Loads” has been added. This contains four components:

- LOAD\_FORCE (node loads DOF 1-4)
- LOAD\_MOMENT (node loads DOF 5-8)
- LOAD\_LINE\_LOAD (beam loads)
- LOAD\_PRESSURE (shell & segment loads)



## Displaying Loads

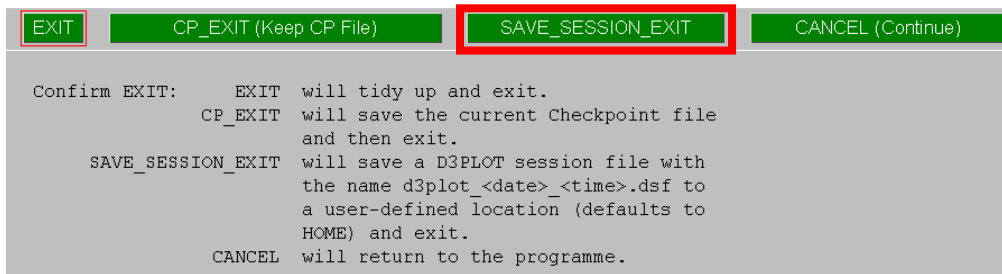
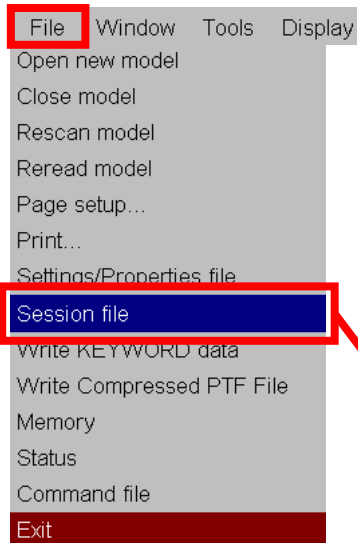
Load display has the following limitations:

- Only the following load types can be plotted:
  - LOAD\_NODE\_POINT / SET,
  - LOAD\_BEAM(\_SET),
  - LOAD\_SHELL(\_SET),
  - LOAD\_SEGMENT(\_SET).
- Loads defined with functions are not supported and will not be displayed.
- The information to display loads is new to the v16.0 ZTF file, so the ZTF file must be generated with v16.0 PRIMER.

# Session Files

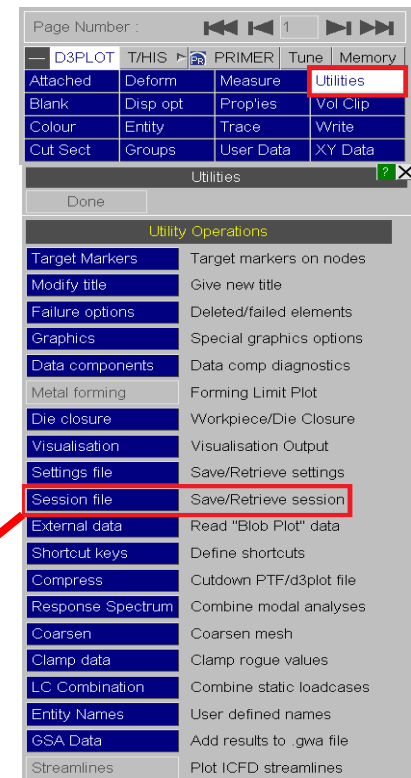
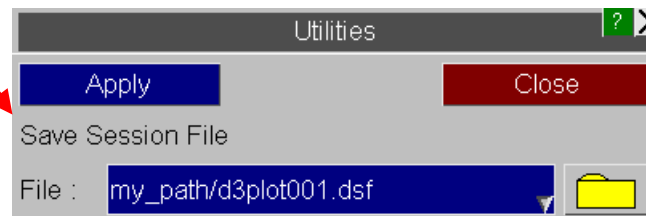
# Session Files

D3PLOT 16.0 introduces the ability to save and restore 'sessions', permitting the user to quickly revert to the state they were at when they last exited D3PLOT. Sessions may be saved via either the File popup menu, the Utilities panel or the EXIT window.



Auto-save

Explicit session path and name



# DEMO

# JavaScript



The following new functions have been added to the D3PLOT JavaScript API. Optional arguments are given in italics.

Function	Description
<code>IsVisible(<i>type_code</i>, <i>item</i>, <i>window_id</i>, <i>state_id</i>)</code>	<p>Returns JS_TRUE if the item is currently visible, otherwise it returns JS_FALSE.</p> <p>An entity is considered "visible" if the following conditions are all true:</p> <ol style="list-style-type: none"><li>1. Not blanked,</li><li>2. The visibility switch is ON for type '<i>type_code</i>',</li><li>3. Is not empty, if type is PART,</li><li>4. The entity '<i>item</i>' has not been deleted in the current state if the type is an element.</li></ol> <p>Arguments: <i>type_code</i> (constant), <i>item</i> (integer), <i>window_id</i> (integer), optional <i>state_id</i> (integer).</p>

Function	Description
<code>Colour.RGB(<i>red</i>, <i>green</i>, <i>blue</i>)</code>	Specify a colour by the RGB value with <i>red</i> , <i>green</i> and <i>blue</i> in the range 0-255.
<code>Colour.COLOUR_CONSTANT</code>	Specify a colour by the associated colour constant, which can be any of: DEFAULT, WHITE, GREY, BLACK, MAGENTA, RED_MAGENTA, RED, DARK_ORANGE, ORANGE, YELLOW, YELLOW_GREEN, GREEN, GREEN_CYAN, CYAN, LIGHT_BLUE, MEDIUM_BLUE, BLUE.

# Preferences

## New Preferences

The following preferences have been added to D3PLOT:

Preference	Description
d3plot*lode_param_tension_sign	Can be set to POSITIVE or NEGATIVE to set the sign convention for the lode parameter for uniaxial tension. The default is NEGATIVE.
d3plot*session_auto_save	Can be set to ON to instruct D3PLOT to save a session on exit
d3plot*session_save_option	Can be set to one of HOME, DESKTOP or USER_DEFINED to define the save location for sessions during exit.
d3plot*session_save_dir	Can be set to a location of the user's choice and is applicable if d3plot*session_save_option is set to USER_DEFINED.

# Oasys T/HIS v16.0

# Curve Table

# Curve Table

Curve Table

Dismiss View... Update Filter by Model... Label... Type... Compon

Select: All None Clear All Filter Options

ID	Label/Group Name	Model/File	Type	Entity ID	Component	Style	* 1
1	Pressure - Airbag 1	2	Airbag	1	Pressure		<input checked="" type="checkbox"/>
2	Volume - Airbag 1	2	Airbag	1	Volume		<input checked="" type="checkbox"/>
3	Internal energy - Airbag 1	2	Airbag	1	Internal energy		<input checked="" type="checkbox"/>
4	Mass rate in - Airbag 1	2	Airbag	1	Mass rate in		<input checked="" type="checkbox"/>
5	Mass rate out - Airbag 1	2	Airbag	1	Mass rate out		<input checked="" type="checkbox"/>
1	Model_1	N/A	GROUP	100369	Resultant Force		<input type="checkbox"/>
2	Model_2	2	GROUP	1	*	Mixed	<input checked="" type="checkbox"/>

V15

Curve Table

Dismiss View... Update Filter by Model... Label... Type... Component... Save as: Format: CSV Apply

Select: All None Clear All Filter Options

Auto resize width

Graph buttons Curve properties

ID	Label/Group Name	Component	Style	Min Y	Max Y	Min X	Max X	X @ Min Y	X @ Max Y	Average	RMS	# POINTS	HIC val	THIV val
1	Pressure - Airbag 1	Pressure		0.1000521	0.1712826	7.2e-07	0.02990016	7.2e-07	0.01340064	0.1654779	0.1660907	300	-	-
2	Volume - Airbag 1	Volume		4223730	4223730	7.2e-07	0.02990016	7.2e-07	7.2e-07	4223732	4216685	300	-	-
3	Internal energy - Airbag 1	Internal energy		986470.7	1701430	7.2e-07	0.02990016	7.2e-07	0.01330056	1643130	1649399	300	-	-
4	Mass rate in - Airbag 1	Mass rate in		0	0.0009999467	7.2e-07	0.02990016	0.0050004	0.00200016	8.36136e-05	0.0002357984	300	-	-
5	Mass rate out - Airbag 1	Mass rate out		0	1.494367e-05	7.2e-07	0.02990016	7.2e-07	0.02810016	1.489381e-06	3.502842e-06	300	-	-
1	Model_1	*	Mixed	0	4223730	7.2e-07	0.02990016	0.0050004	7.2e-07	-	-	-	-	-

V16

Multiple new features have been added to the curve table:

- Curve properties and injury values
- Writing to CSV and XLSX files
- Operating on curves
- Annotating curves with property values

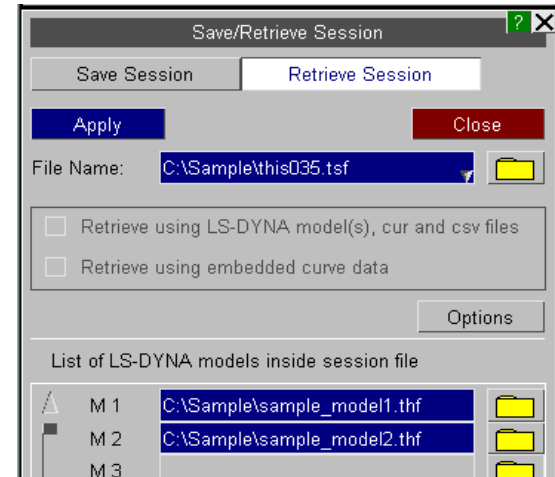
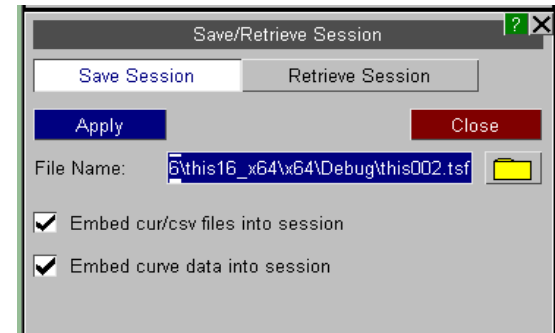
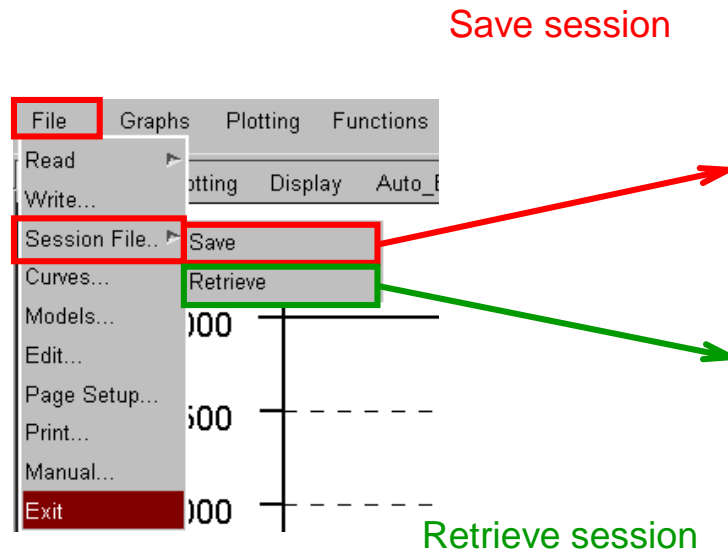
# DEMO



# Session Files

# T/HIS Session – Save and Retrieve

A T/HIS session can now be saved as a session file (.tsf), which can be read back in to restore the saved session.



# DEMO

# New Preferences

## New Preferences

The following preferences have been added to T/HIS:

- **session\_auto\_save** Saves a session unconditionally on exit. By default T/HIS does not save session on exit.  
ON/OFF
- **session\_save\_option** Sets the location for auto saving of session on exit. By default will be saved to OA\_HOME.  
HOME/USER\_DEFINED/DESKTOP
- **session\_save\_dir** Defines the user-defined location for auto save on exit.  
*string* “pathname”

## New Preferences

- **session\_embed\_cur/csv\_files** Embed the cur and csv files used into the session file. By default cur/csv files are not embedded into session file.  
ON/OFF
- **session\_embed\_curve\_data** Embed the curve data into the session file. This can help in retrieving a session even when LS-DYNA results are missing. By default curve data is not embedded into session files.  
ON/OFF
- **show\_session\_retrieve\_on\_start** A pop-up panel to retrieve T/HIS session file pops-up every time T/HIS is started. This panel does not appear by default.  
ON/OFF

## New Preferences

- **ctable\_injuryvals\_on** Show the injury value columns chosen by the above preferences in the curve table by default.  
TRUE/FALSE
- **ctable\_properties\_on** Show curve property columns chosen by the above preferences in the curve table by default.  
TRUE/FALSE
- **ctable\_show\_*propertyname*** Show or hide each individual curve property or injury value column by default. Replace ***propertyname*** with any of:  
miny, maxy, minposy, minx, maxx, minposx,  
xatminy, xatmaxy,  
xatminposy, average, rms, points, hic, hicd, tms,  
tti, thiv, phd, corr.  
TRUE/FALSE

# Curve Operations



# Curve Operations - Regression

The Regres operation applies least squares regression to fit data with either a linear, polynomial (degree 1-4), logarithmic or exponential curve.

--< Undock		Operate				?	X
ABS	ADD (y)	ADD (x)	AVE	CAT	CLIP		
COM	DIF	DIV (y)	DIV (x)	ENV	ERR		
INT	LSQ	MAP	MAX	MIN	MON		
MUL (y)	MUL (x)	NOR (y)	NOR (x)	ORDER	REC		
RES	REV	R-AVE	SMO	SQR	STRESS		
SUB (y)	SUB (x)	SUM	TRA	VEC	VEC(2D)		
WINDO	ZERO	dB	dBa	Octave	Regres		

Copy Style from Input to Output Curve

Linear

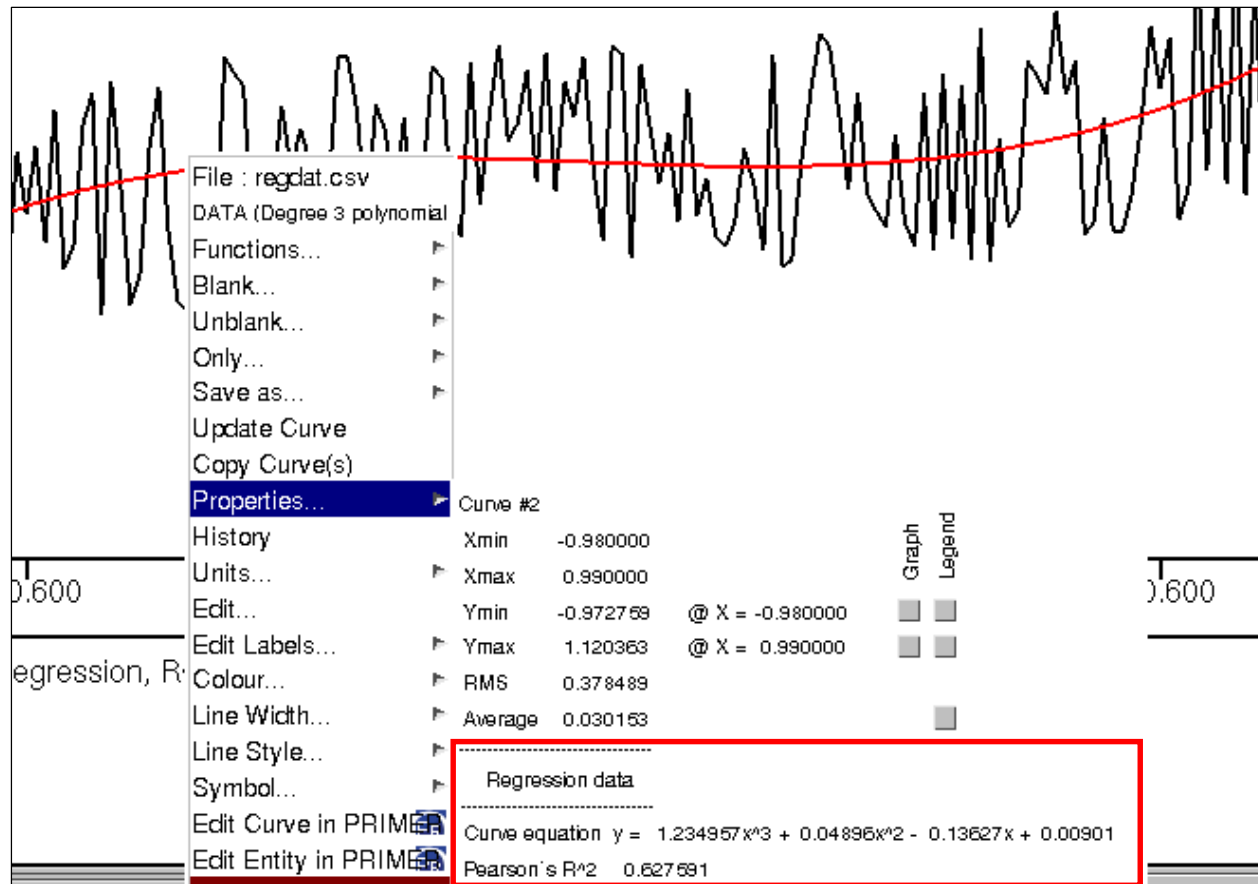
Polynomial (degree 1-4) 3

Logarithmic

Exponential

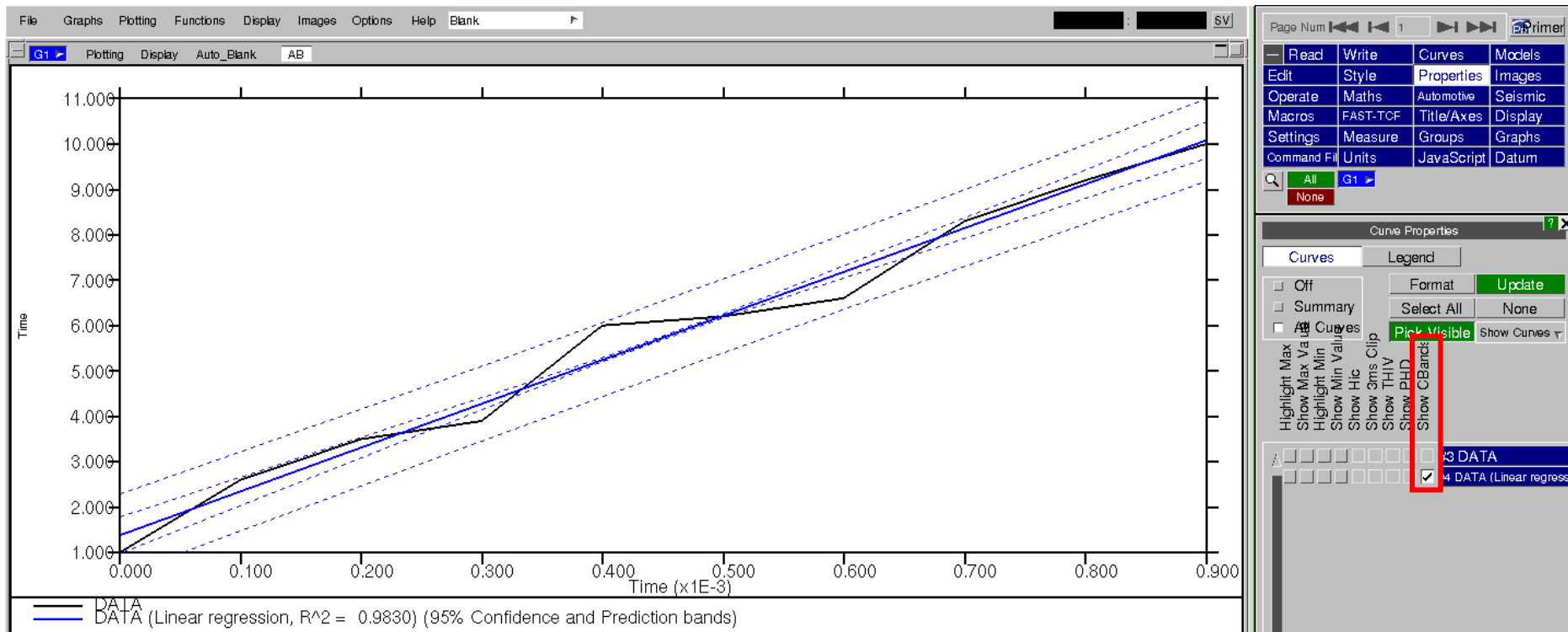
# Curve Operations - Regression

The equation of the output curve and Pearson's  $R^2$  coefficient can be viewed by right-clicking on the curve and selecting Properties.



# Curve Operations - Regression

In the case of linear regression, additional statistics are given in the properties pop-up. Additionally, for linear regression it is possible to display 95% confidence and prediction bands around the output curve. These are displayed by selecting the Properties menu in the top-right panel and then ticking Show CBands.



# Antialiasing Curves

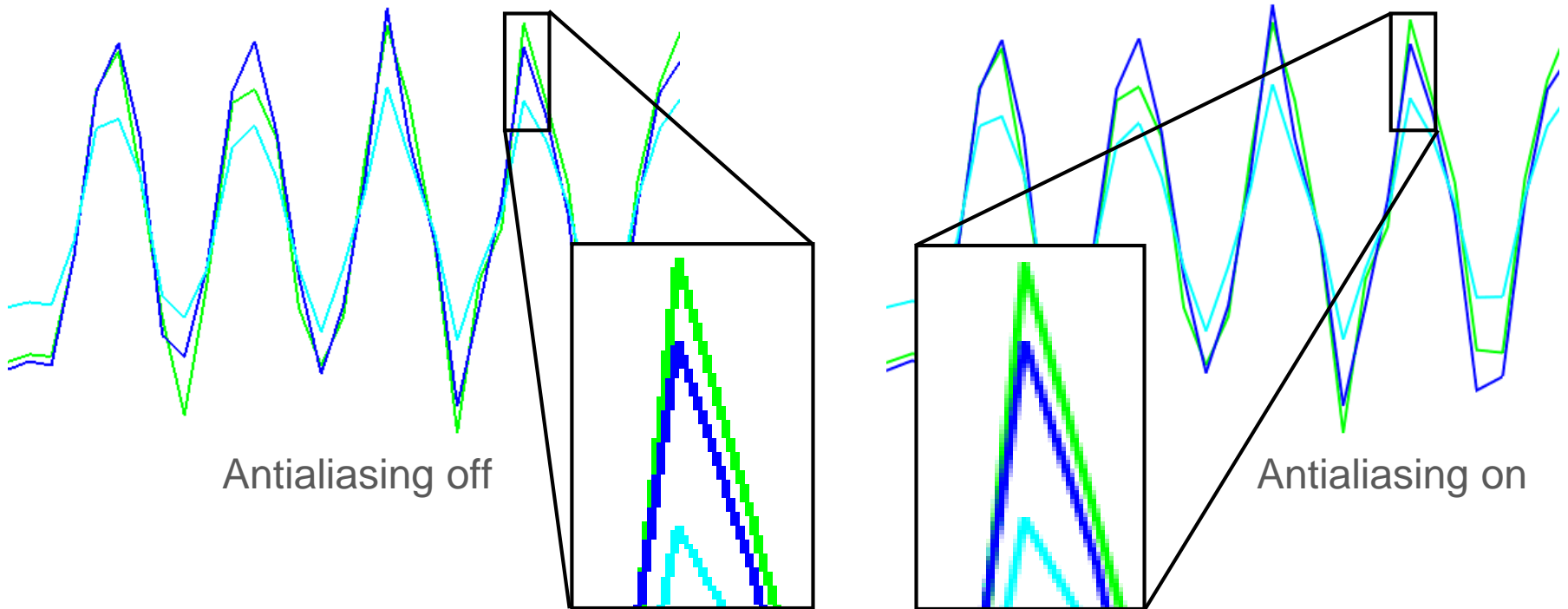
# Antialiasing Curves

Curves are now antialiased by default in T/HIS, which gives them a smoother look. This can be turned on and off via:

Display -> Use Antialised Lines

There is also a preference that can be used to turn this on or off by default:

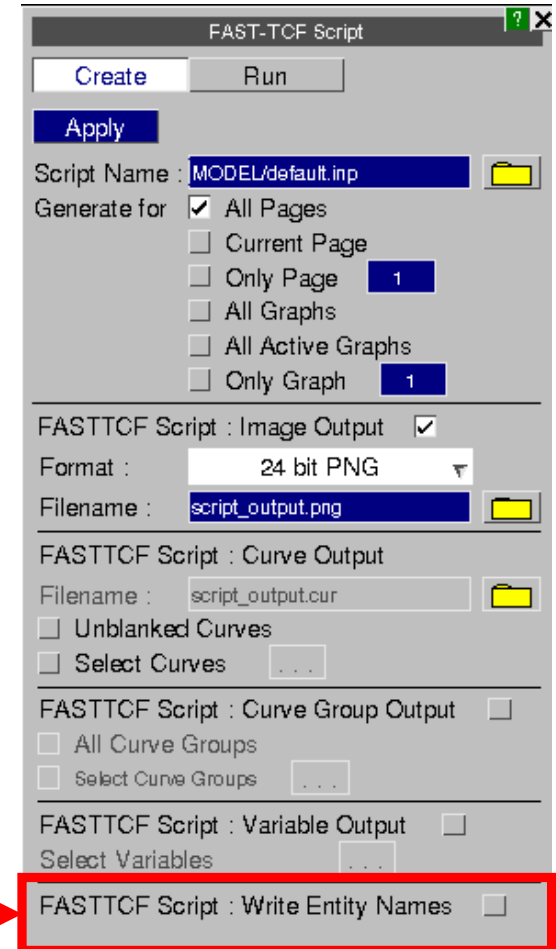
this\*line\_antialias: ON/OFF



# FAST-TCF

# FAST-TCF

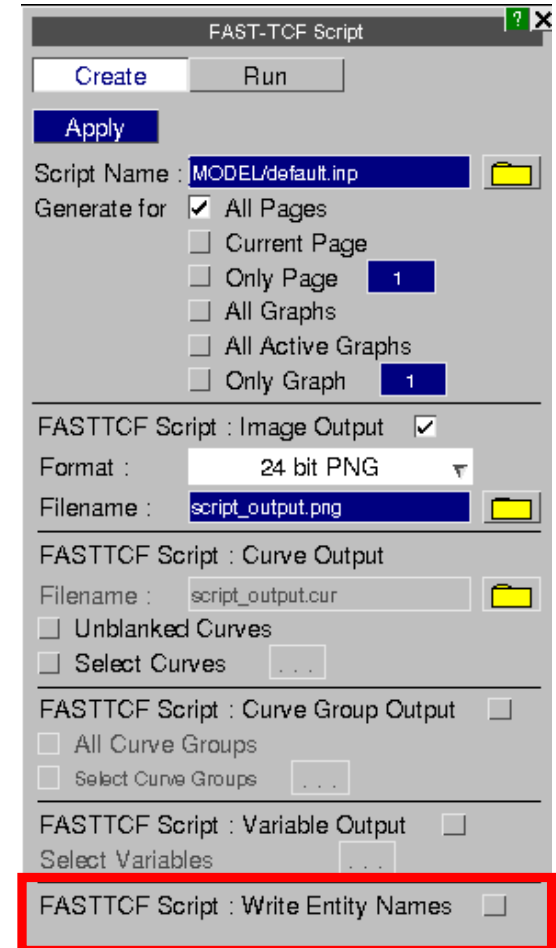
An option has been added to the FAST-TCF create panel, so that one can choose to write entity names (when they exist), in place of IDs, into any generated FAST-TCF script. These names will then be used to identify the entities when running the script.



# FAST-TCF

```
default.inp x
34 layout graph 1 legend format column
35 layout graph 1 legend columns 2
36 #
37 # Read data from models and files
38 #
39 model none
40 model 1
41 node 9000044 acceleration z tag curve_1
42 #
43 # Operations for unblanked curves
44 #
45 operation mul curve_1 1 tag curve_2
46 #
47 # Delete working curves

34 layout graph 1 legend format column
35 layout graph 1 legend columns 2
36 #
37 # Read data from models and files
38 #
39 model none
40 model 1
41 node "Left Brake Caliper" acceleration m tag curve_1
42 #
43 # Operations for unblanked curves
44 #
45 operation mul curve_1 1 tag curve_2
46 #
47 # Delete working curves
```





The following commands have been added to FAST-TCF:

Command	Arguments	Description
colour	n           RRGGBB	Set the n-th user-defined colour (up to 6) using a 6-digit hexadecimal to specify the RGB values.
colour_rgb	n           R G B	Set the n-th user-defined colour (up to 6) using three integers in the range 0-255 to specify the RGB values.
y_min, ymax, y2_min, y2_max	auto_vis	Set the minimum/maximum value on the y/y2-axis to the automatic value based on the currently visible section of the x-axis. Similar to 'Y' shortcut key.

Command	Arguments	Description
y_ranges	auto auto_vis y_auto y_auto_vis y2_auto y2_auto_vis	Set the minimum and maximum values simultaneously on either the y-axis, the y2-axis or both together. These can be set either to the automatic values based on the whole x-axis or just on the visible portion.
varr vara varf tab taba tabc tabcr	VAR_NAME    all all_minx all_maxx all_miny all_maxy all_xatmin all_xatmax all_catmin all_catmax	New variables for properties relating to all curves. These give the min/max x, min/max y, x value at min/max y and curve number at min/max y respectively, each of which is calculated over all curves.

# JavaScript

## New JavaScript Functions – Global Class

The following functions have been added to the T/HIS JavaScript API.

Function	Description
GetCurrentDirectory()	Returns the current working directory.
GetInstallDirectory()	Returns the value of the OA_INSTALL environment variable, or, if this doesn't exist, the directory in which the current executable is installed.
GetStartInDirectory()	Returns the directory passed in by the -start_in command line argument, or, if this wasn't used, the directory from which the executable was run.
GetPreferenceValue( <i>program_name</i> , <i>preference_name</i> )	Get the value of preference_name for program_name from any of OA_ADMIN, OA_INSTALL or OA_HOME oa_pref files.
SetCurrentDirectory( <i>pathname</i> )	Sets the current working directory to the directory specified by the string 'pathname'.

## New JavaScript Functions – Page Class

Function	Description
Page.ReturnActivePage()	Returns the current active page in T/HIS.
Page.SetActivePage( <i>page</i> )	Sets the current active page to <i>page</i> , or gives an error if this page does not exist.
Page.AddGraph( <i>page</i> , <i>graph</i> , <i>copy_settings</i> , <i>n_graphs</i> )	Adds graph number <i>graph</i> to page <i>page</i> . If <i>graph</i> = 0, then create a new graph and copy settings from graph number <i>copy_settings</i> . If <i>graph</i> = 0 then <i>n_graphs</i> specifies the number of new graphs to create and add to <i>page</i> .
Page.ReturnGraphs( <i>page</i> )	Returns an array of JavaScript Graph objects, containing all the graphs on page <i>page</i> .

## New JavaScript Functions – Group Class

Function	Description
Group.xmin/xmax	Minimum/maximum X value over all curves in the group.
Group.ymin/ymax	Minimum/maximum Y value over all curves in the group.
Group.x_at_ymin/ymax	X value at minimum/maximum Y value over all curves in the group.
Group.crv_at_ymin/ymax	Curve number of the curve with the minimum/maximum Y value in the group.
Group.xminpos/yminpos	Minimum positive X value/Y value over all curves in the group.
Group.x_at_yminpos	X value at minimum positive Y value over all curves in the group.

## New JavaScript Functions – Read Class

Function	Description
<code>Read.Key(<i>filename</i>)</code>	Reads a Keyword file named <i>filename</i> into T/HIS.
<code>Read.ISO(<i>filename</i>, <i>format</i>)</code>	Reads an ISO file named <i>filename</i> into T/HIS. Multiple channels can be read in by giving an ISO index file and specifying <i>format</i> = 0, 1 or no argument. A single channel file can be read in by giving the name of the channel file and specifying <i>format</i> = 2.
<code>Read.LSPP(<i>filename</i>, <i>format</i>)</code>	Reads an LS-PREPOST file named <i>filename</i> into T/HIS. A curve file can be read by specifying <i>format</i> = 0,1 or no argument. An XY pairs file can be read by specifying <i>format</i> = 2.

# Oasys REPORTER v16.0



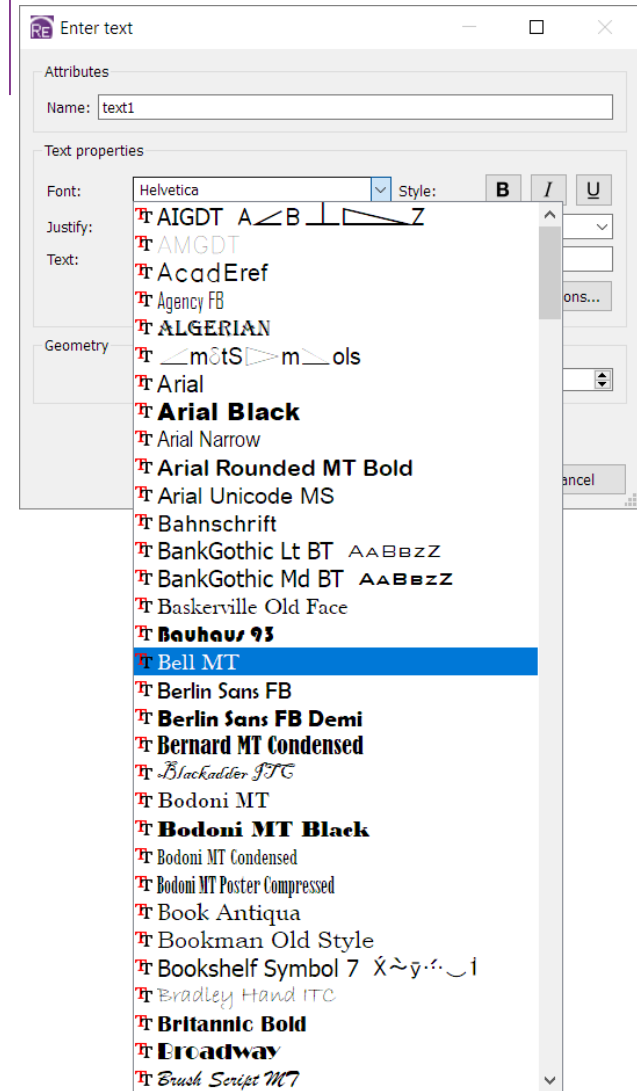
# Fonts

Until now, REPORTER has only supported four fonts (with very basic add-on support for Chinese, Japanese and Korean fonts):

Courier Helvetica Times Σμμβολ (Symbol)

Version 16.0 offers support for many more fonts, giving you greater control over the look of your reports, and allowing you to create templates that match your organisation's branding.

Oasys | LS-DYNA ENVIRONMENT  
Prepare 準備 Analyse 分析  
Visualise 显示  
Process 后期处理  
Report 報告



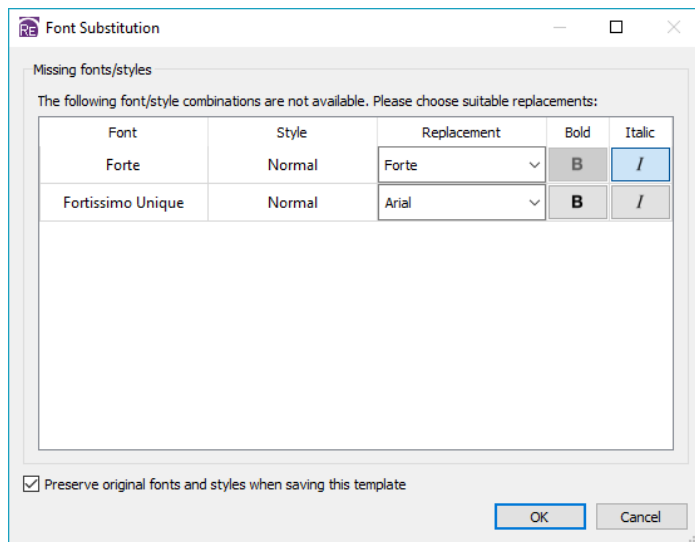
# Fonts (continued)

## Font Mapping

Customisable font mapping is provided to improve compatibility between users and operating systems. If another user shares a template with you that uses a font that is not installed on your system, suitable alternatives will be suggested in the Font Substitution dialog that appears when you open the template.

If you create templates on Windows but then run them in batch on a Linux server, font mapping will help preserve the look and style of your output.

For more details, see chapter 11 of the REPORTER 16.0 manual.



# Exporting Tables to Excel

REPORTER 17.0 dev - 64 bit (build 1318) - [Page 1 of 1: C:/executables/export\_tables\_excel/tables\_excel\_demo.ort\*]

File Edit View Insert Page Script Variables Window Help

123%

Impact Point	Coordinates [m]			Utilisation Ratio
	X	Y	Z	
A	1.02	78.45	-0.94	0.87
B	5.00	83.92	0.02	1.16
C	8.79	79.61	1.11	0.44
D	13.44	81.50	-0.38	0.25

Enter Table information

Attributes

Name: table1

Rows: 6 | Reset heights | Columns: 5 | Reset widths | Margins...

Cells:

	Column 1	Column 2	Column 3	Column 4
Row 1	Impact Point	Coordinates [m]		
Row 2	Point	X	Y	Z
Row 3	A	1.02	78.45	-0.94
Row 4	B	5.00	83.92	0.02

Cell properties

Text: | Font...

Choose... | Hyperlink... | Conditions...

Width: 0.0 | Height: 0.0

Program arguments

Add | Remove | Edit

Geometry

Bottom left X: 26.0 | Bottom left Y: 62.0

Width: 178.0 | Height: 64.0

When generating save to CSV file: | Choose...

When generating save to XLSX file: %TEMPLATE\_DIR%/tables\_excel\_demo.xlsx | Choose...

OK | Cancel

tables\_excel\_demo.xlsx - Excel

File Home Insert Draw Page Layout Formulas Data Review View

Gill Sans MT | 12 | A | A

Clipboard | Font | Alignment | Number

Impact Point	Coordinates [m]			Utilisation Ratio
	X	Y	Z	
A	1.02	78.45	-0.94	0.87
B	5	83.92	0.02	1.16
C	8.79	79.61	1.11	0.44
D	13.44	81.5	-0.38	0.25

Table and Autotable items can now be exported in Microsoft Excel format, complete with formatting (cell size, text alignment, font style, borders, colours, merged cells).

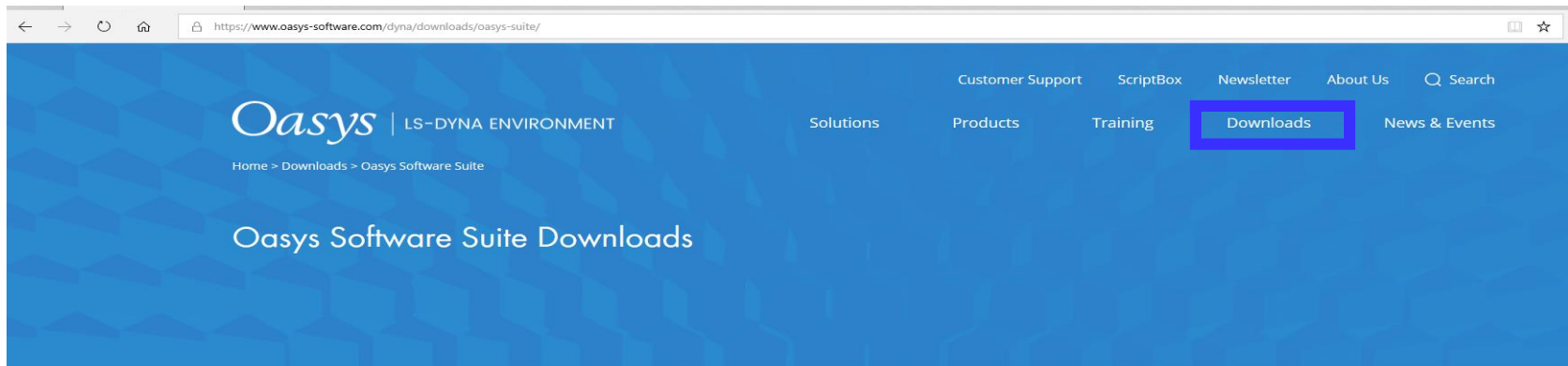
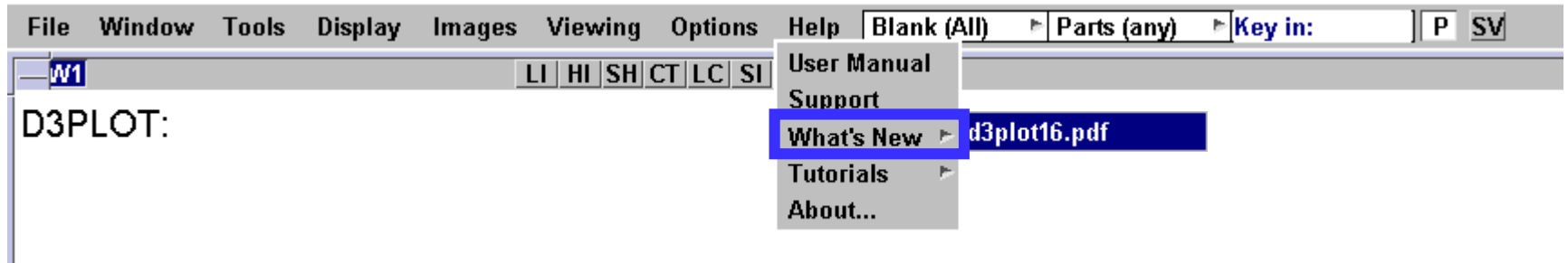
In the Table or Autotable dialog, check 'When generating save to XLSX file' and choose a filename.

# Tables in the JavaScript API

Various new functions have been added to the Item class of the JavaScript API to enable full control over Table and Autotable items. For example, it is now possible to:

- Insert/delete/resize rows/columns
- Merge/unmerge cells
- Get/set cell properties (e.g. text, alignment, font, colour, border width)
- Get/set cell conditions

# What's New



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The latest version of Oasys is available for download below, along with previous versions.

Oasys Suite 16.0 - Release date: 06/03/2019

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339MB

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