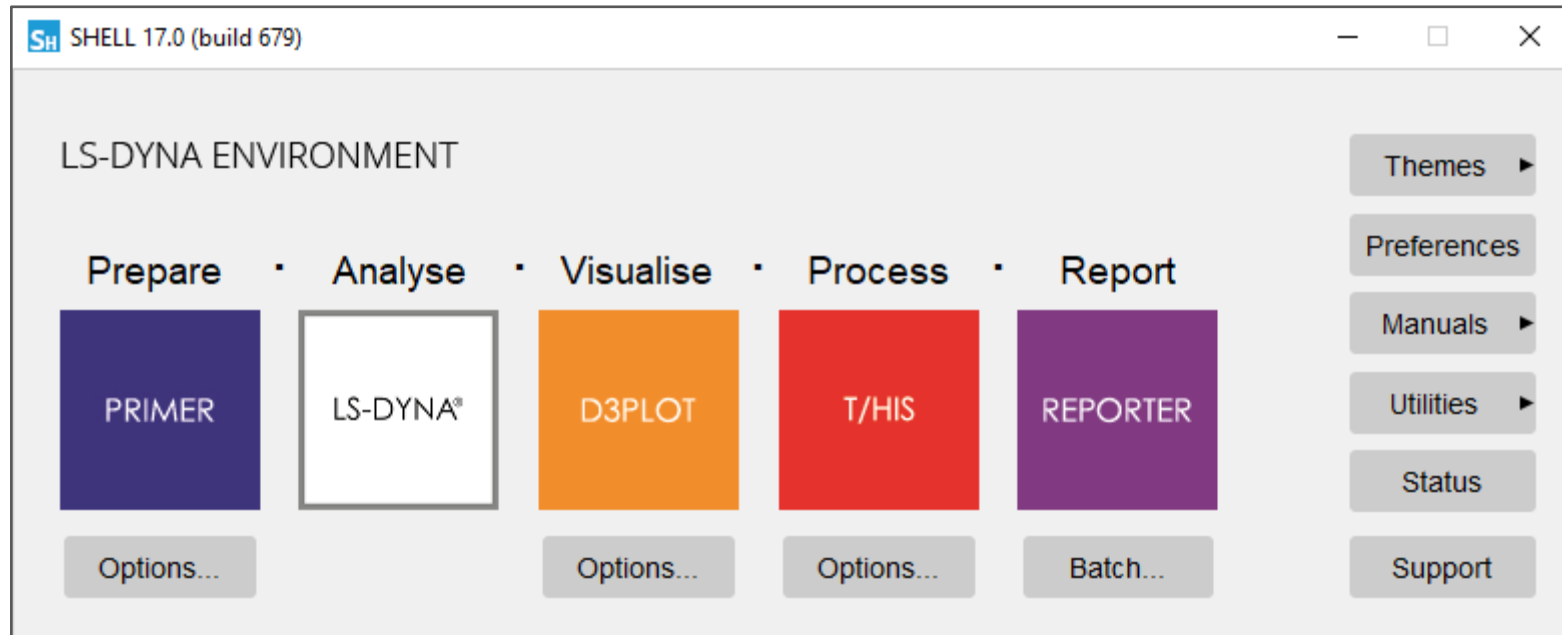


SHELL 17.0

New Look

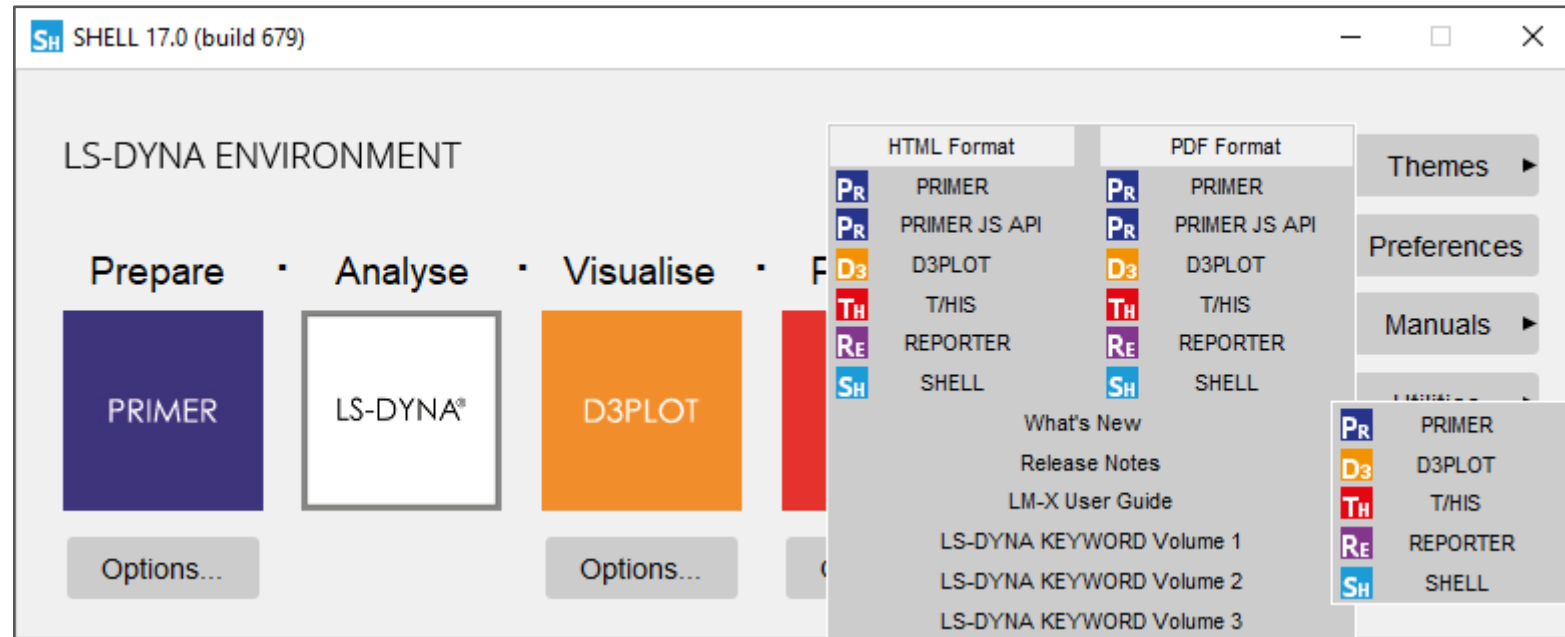
New Look

- The SHELL 17.0 is now launched in a new Landscape mode.
- The respective program options can be accessed via the “**Options...**” or “**Batch...**” buttons.



New Look (cont.)

- An additional **“Themes”** popup menu has been introduced to change GUI Themes of all the Oasys programs directly from the SHELL.
- The ‘Manuals’ popup menu options are rationalised into PDF and HTML formats. Also **“What’s new”** presentations for all the programs can be accessed directly from this menu.



LS-DYNA Submission Options

LS-DYNA Submission Options

- Instead of selecting an executable from the list in the 'dyna_versions' file, an executable can be explicitly specified by selecting the '**Local LS-DYNA Executable**' option.
- To browse for the executable select the folder icon.
- The precision and code-type (SMP, MPP or Hybrid) options also need to be set to the correct values as it's not possible for the SHELL to know these from just the executable name. If the code-type is MPP then you also need to set the **MPI Type**.
- If you have the appropriate file permissions you can append the executable to the 'dyna_versions' file by pressing the '**Add Version**' button.
- The Local LS-DYNA Executable option is also available for the command line SHELL.

LS-DYNA SUBMISSION

LS-DYNA

Single Precision Double Precision

SMP MPP Hybrid

Version: R7.1.2 Release (AVX2) Add Version

MPI Type: PMPI

LS-DYNA Exe: /prg/LINUX/DYNA_EXECUTABLES/R7.1.2/lis-dyna_mpp_s_r7_1_2_95028_

Job Options

Input File: [Browse]

File Format: Keyword Select Files Sequential Submission

CPU LIMIT: 0 Seconds

MEMORY LIMIT: 10 MegaWords

MEMORY2 (MPP): 10 Increase Memory If Required

Output Files: LSTC 'd3plot ...' Optional Files

Version: Local LS-DYNA Executable
R7.1.2 Release (AVX2)
R7.1.2 Release
Local LS-DYNA Executable

LS-DYNA Submission Options (cont.)

- New **Input/Output options** (pgkey etc.) have been added in the “Additional Files” panel.
- An up-to-date list of the **Sensor switch Kill** options are also now available.
- The above additions are also available for the Command-Line SHELL too.

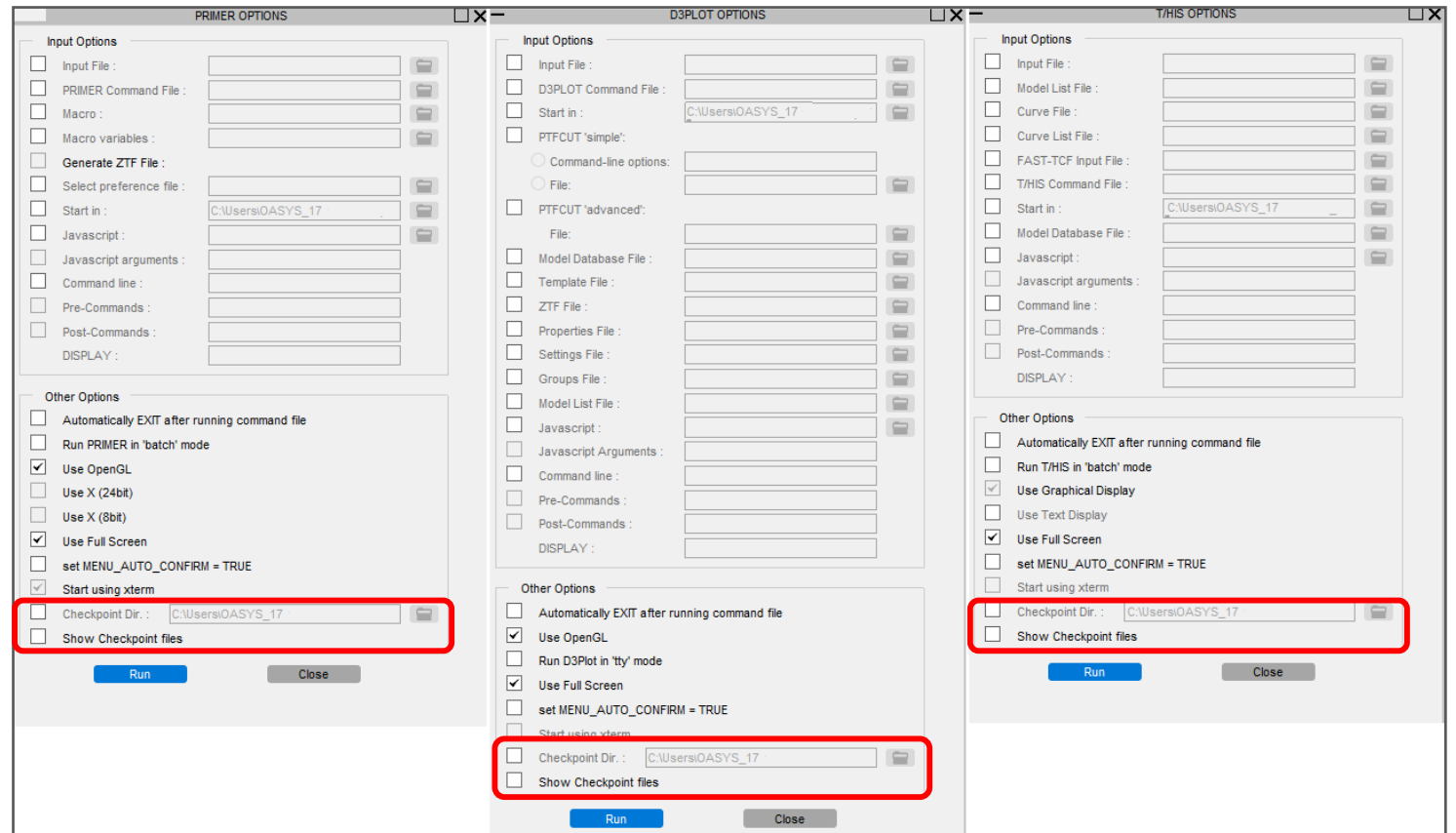
The screenshot shows the 'Additional Files' panel of the LS-DYNA submission options dialog. It is divided into three main sections: 'Input Files', 'Input Options', and 'Output Files'.
Input Files: A list of checkboxes for various input file types: Stress Initialization (.sif), Interface Segment (.isf2), VDA Geometry (.vda), CAL3D Input (.c3d), TOPAZ3D Temperature file (.htf), MADYMO Input File, REMAP option, MPP pfile (with a text field containing 'pfile'), and GMINP (.gm).
Input Options: A section with numerical input fields for ENDTIM (0.000000), ENDCYC (0), and PARA (0), followed by checkboxes for CASE, MCHECK, PGPKEY, INIT, D3PROP, LONG, BIGID, and JOBID.
Output Files: A list of checkboxes for various output file types: Contact Force File (.ctf), Interface Segment (.isf1), Static Database File (.ztf) (checked), Winfrith Crack file (.crf), FSIFOR file (.fff), GMOUT (.gm), CPM Interface Force (.cpm), DEM Interface Force (.dem), FSILNK file (.fsl), PBM Interface Force (.pbm), D3PART file (.d3part), BEM file (.bem), and General Print file (.root).
At the bottom of the dialog, there are fields for 'Module DLL', 'map =', and 'map1 =', each with a browse button. Below these is a 'Binary File Size' field set to '1024' (max 8192) and a 'CLOSE' button.

The screenshot shows the 'Sensor switch Kill' options panel of the LS-DYNA submission options dialog. It contains a list of checkboxes for various sensor switch options:
SW1 : Write a Restart File and Terminate
SW2 : Report Time and Cycle Number (checked)
SW3 : Write a Restart File and Continue
SW4 : Write a Plot State and Continue
SW5 : Interactive graphics and real time visualization
SW7 : Turn off real time visualization
SW8 : Interactive 2D rezoner for solid elements and real time visualization.
SW9 : Turn off real time visualization (for option SW8)
FILE : Send Output from SW2 to a File
SWA : Flush ASCII file buffers
SWB : Write a DYNAIN File and Continue
SWC : Write a DYNAIN and a Restart File and Continue
SWD : Write a DYNAIN and a Restart File and Terminate
CONV : Temporarily override nonlinear convergence tolerances
ITER : Enable/Disable output of binary plot database "d3iter" after each equilibrium iteration
LPRINT : Enable/Disable output of equation solver memory, cpu requirements
NLPRINT : Enable/Disable output of nonlinear equilibrium iteration information
PROF : Output current timing information to messag (SMP) or prof.out (MPP).
STOP : Halt execution immediately, closing open files
At the bottom of the panel, there are 'APPLY' and 'CANCEL' buttons.

Control Checkpoint Files Read/Write

Control Checkpoint Files Read/Write

- The Checkpoints file Read/Write can now be controlled via the SHELL “Options...” panels.
- You can select the default directory to Read/Write the checkpoint files via the “**Checkpoint Dir**” input option. If the value inputted =**<none>**, then the Checkpoint files will not be recorded for the current PRIMER, D3PLOT or T/HIS sessions.
- Upon the start of the PRIMER, D3PLOT or T/HIS sessions, the checkpoint files panel can be enabled/disabled by the option “**Show Checkpoint files**”.



Licensing Configuration

Licensing Configuration

- The SHELL incorporates the changed licensing from FLEXlm to LM-X.
- The LM-X licensing guide can be opened via the “Manual” popup menu.
- The Linux based “oasys_17” script sets the LM-X licensing environment variables.
- The “Status” button on the main SHELL panel gives out the Licensing usage statistics for the Oasys programs.

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