

Monday, March 17, 2003

LS-OPT Version 2a

This is a production version of LS-OPT and contains the following new major features (since Version 1):

1. Compatibility with LS-DYNA Version 970
2. Multidisciplinary Design Optimization using the Multidisciplinary Feasible Method.
3. Responses are extracted immediately after each simulation.
The simulation and extraction is one process.
4. Job distribution: A job distribution feature using the load sharing systems LSF, PBS, NQS and LoadLeveler is included.
Files are automatically transferred from the local to the remote machine.
5. Variable screening: Provides sensitivities of responses to variables and the confidence intervals of these sensitivities. The Analysis of Variance (ANOVA) approach is used.

The variable screening can be viewed in LS-OPTui->View.

6. Mathematical expressions for
 - a. Dependent variables
 - b. Histories
 - c. Responses
 - d. Composites
- Dependent variables can be substituted in the solver input file.
 - Mathematical expressions include integrals and lookup functions.

The manual in Isopt_2a_manual.pdf has been completely updated with new examples and screen shots of LS-OPTui.

NOTES for 2a version:

1. Database conversion:

A database which was produced by versions prior to 2a can be converted for use with the Version 2a GUI.
The command is:

Isopt <command_file_name> -convert ver20

This command produces a result database in a subdirectory called 'newdatabase'. The Version 2a GUI can be executed from inside the 'newdatabase' directory.

----- End of ReleaseNotes -----