T009: Hardware Performance Benchmarking

Introduction

This document describes how to run a DEFORM simulation that can be used to measure the performance of your computer hardware.

Problem Description

Many DEFORM users wonder how fast new computers are in relation to their existing computer. This is often important when justifying computer upgrades to management. The LinkTimeTest benchmark case is a standardized example that can be used to measure the DEFORM performance of a computer.

Solution

To run the benchmark with DEFORM-3D:

1. Download the LinkTimeTest3D.zip file.
2. Extract the zip file to a folder under your PROBLEM directory.
3. Open the LinkTimeTest keyword file in DEFORM-3D Preprocessor.
4. Generate a database called LinkTimeTest.DB.
5. Run the simulation.

To run the benchmark for DEFORM-F3:

1. Download the LinkTimeTestF3.zip file.
2. Extract the zip file contents to the "C:\DEFORM3D\PROBLEM\" folder.
3. Open the LinkTimeTest project in DEFORM-F3.
4. Run the simulation.

Computer hardware specifications and test results are summarized in a benchmark performance chart maintained by DEFORM Support. This chart provides quantifiable information that can be used to justify new equipment or licensing expenditures. Customers can contact DEFORM Support to obtain the current version of this chart for their reference.

Please send the following information to DEFORM Support (support@deform.com), once the benchmark run is complete, for inclusion in the timing performance chart:

1. LinkTimeTest.LOG file

2. LinkTimeTest.MSG file
3. System specification summary (see below)
4. DEFORM version number, e.g. 10.1.2, 10.2.0, 10.2.1, etc.

For Windows users, a system specification summary can be created using the following method:

1. Windows XP: Type "msinfo32" into the Run box and hit Enter.
   Vista/Win 7: Type "msinfo32" into the Search box and hit Enter.
2. Click File > Export...
3. Save the system information as a text file.
4. Email the saved system information summary.

Please contact DEFORM Support if you have questions or problems..

Related Information

The LinkTimeTest benchmark case is provided below for DEFORM-3D and DEFORM-F3. Please treat this data as confidential and do not share it outside of your company.