TMP Vision® was designed to streamline the visualization and documentation of complex finite element models. Lockheed Martin has used predecessors of TMP Vision® since its development began in 1986. Since then, TMP Vision® has been continuously enhanced to meet the needs of the engineers who are designing and maintaining world class fighter aircraft.

"With TMP Vision®, I can load my 300,000 element NASTRAN deck in 15 seconds. That is the kind of blistering performance that makes this an indispensable tool for serious FEM visualization."

Tom Jones - FEM Analyst, LM Aeronautics

TMP Vision® substantially reduces the time required to complete FEM analyses, improving the process of generating:

- Accurate Input Decks
- Displaced Shape Visualizations
- Color Shaded Images of Result Data
- Hidden Line Contour Plots with Titles
- Freebody Diagrams (Any Coord. Sys.)
- Animations of Transient Solutions

"FE post-processing at LM Aeronautics Fort Worth is performed almost exclusively using TMP Vision® and SLIM."

Mark Crenshaw - Manager VPDI Design and Analysis, LM Aeronautics

TMP Vision® is easily incorporated into any workflow and is supported on popular platforms. In addition to reading native NASTRAN and ABAQUS decks, generic documented input files have been used to import data from many other types of polygonal based simulations.

For NASTRAN users, the combination of SLIM and TMP Vision® provides the ideal solution for interpreting FEM analysis results.

"TMP Vision®’s blazing speed and capabilities make it an excellent tool for evaluating FEM models. Functions such as model verification and part definition are extremely valuable."

Stuart Smith - F-22 FEM Lead, LM Aeronautics

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(817) 820-0520
www.tmpinc.com
**Analysis Power**

With SLIM, structural analysts can rapidly interpret their NASTRAN results. SLIM was designed to meet the demanding requirements of Lockheed Martin engineers and is used as the primary post-processing system on the F-16, F-22, JSF and other programs.

**SLIM makes it easy to:**
- Perform Min/Max Surveys of Stress, Strain, Displacement and Force Data
- Generate a TMP Vision™ Result File for Post-Processing
- Create Tabular Surveys and Freebodies for Reports
- Manage Project Parts and Load Case Combinations

"We depend on SLIM and TMP Vision® to routinely process a tremendous volume of structural analysis data."

Selen Minarecioglu - Senior Stress Analyst, LM Aeronautics

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**Features**

**Industrial Strength**
SLIM and TMP Vision® are used to process FEM models with over 300,000 elements and 300,000 nodes daily. SLIM efficiently filters hundreds of load cases producing just what the analyst needs to work effectively.

**Rapidly Generate**
- Surveys
- Freebody Reports
- TMP Vision® Result Files

**Part Capability**
Parts, or element sets can be defined easily in TMP Vision®, or imported from any other source. Once defined, the part names are available to all analysts, making it easy to request results for a specific component of the model.

**Combinations**
SLIM can process specified load cases in multiple SLIM data bases individually or using linear combinations.

**SLIM DMAP Alter**
SLIM includes the DMAP Alters required to output the correct NASTRAN Data Blocks.

**C/Fortran API**
SLIM's Application Programming Interface allows users to create custom applications that can access SLIM databases.

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