*INCLUDE_TRIM

Purpose: This keyword is developed to reduce memory requirements and CPU time during trimming in sheet metal forming.

Card #1 is required.

Card Format (A80)

Card 1	1	2	3	4	5	6	7	8
Variable	FILENAME							
Type	A							

VARIABLE	DESCRIPTION
FILENAME	File name of the part to be trimmed.

Remarks:

1. When option _TRIM is used, the name of the file should be included in a usual LS-DYNA input file for trimming. For example, a drawn panel from previous simulation can be included in a current trim input file as follows,

   *INCLUDE_TRIM
   Drawnpanel.dynain

   No optional cards are necessary.

2. Referring to the table below (parts courtesy of Ford Motor Company), the new TRIM option reduces memory requirement for trimming by more than 50%. Levels of CPU time reductions vary, in some cases more than 50%.

3. This feature is available in LS-DYNA R5 Revision 62207 or later releases, where the output of strain tensors for the shells is included. Prior Revisions do not include strain tensors for the shells.

	Roof	Hood Inr	B-Plr	Fender	BSA Otr	Door Otr	Wheel House (2 in 1)	Boxside Otr
#Element	410810	1021171	351007	189936	380988	315556	261702	1908369
CPU (old/new)	7m26s/ 4m	10m20s/ 9m18s	3m11s/ 2m56s	2m6s/ 1m22s	5m45s/ 4m54s	4m27s/ 3m35s	2m52s/ 2m30s	27m31s/ 13m59s
Memory (MW) (old/new)	282/ 112	616/ 383	221/ 117	119/ 50	233/ 130	217/ 114	157/ 75	1150/ 539