

As Material f_x HEB 300 1a.ipt Type a keyword or phrase Sign In

Model Inspect Tools Manage View Environments Get Started Add-Ins Stress Analysis

Create Parametric Assign Pin Fixed Frictionless Force Pressure Automatic Manual Mesh View Simulate Animate Probe Color Bar Adjusted x0.5 Report Guide Stress Analysis Settings Finish Stress Analysis

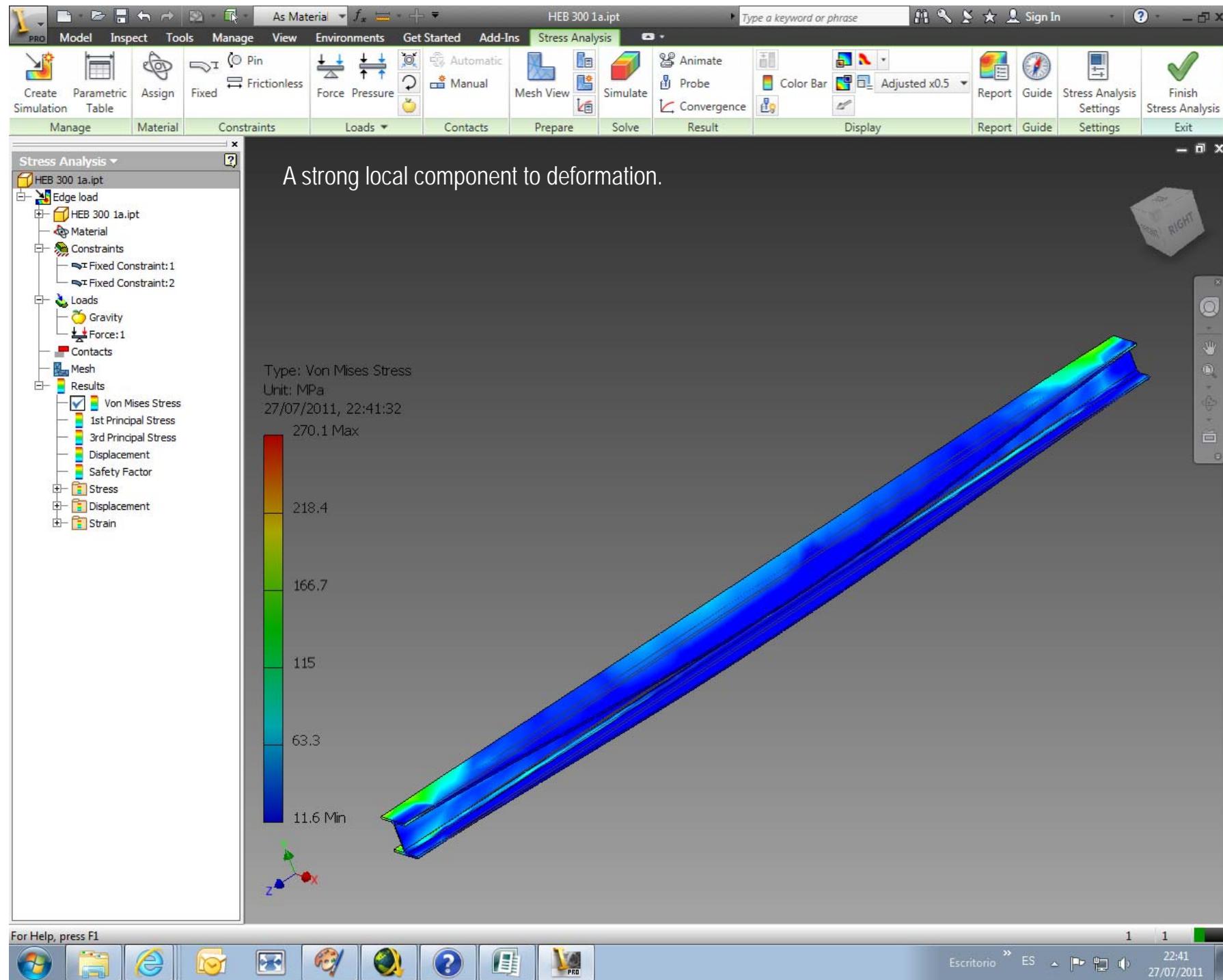
Manage Material Constraints Loads Contacts Prepare Solve Result Display Report Guide Settings Exit

Stress Analysis

HEB 300 1a.ipt

- Edge load
- HEB 300 1a.ipt
- Material
- Constraints
 - Fixed Constraint:1
 - Fixed Constraint:2
- Loads
 - Gravity
 - Force:1
- Contacts
- Mesh
- Results
 - Von Mises Stress
 - 1st Principal Stress
 - 3rd Principal Stress
 - Displacement
 - Safety Factor
- Stress
- Displacement
- Strain

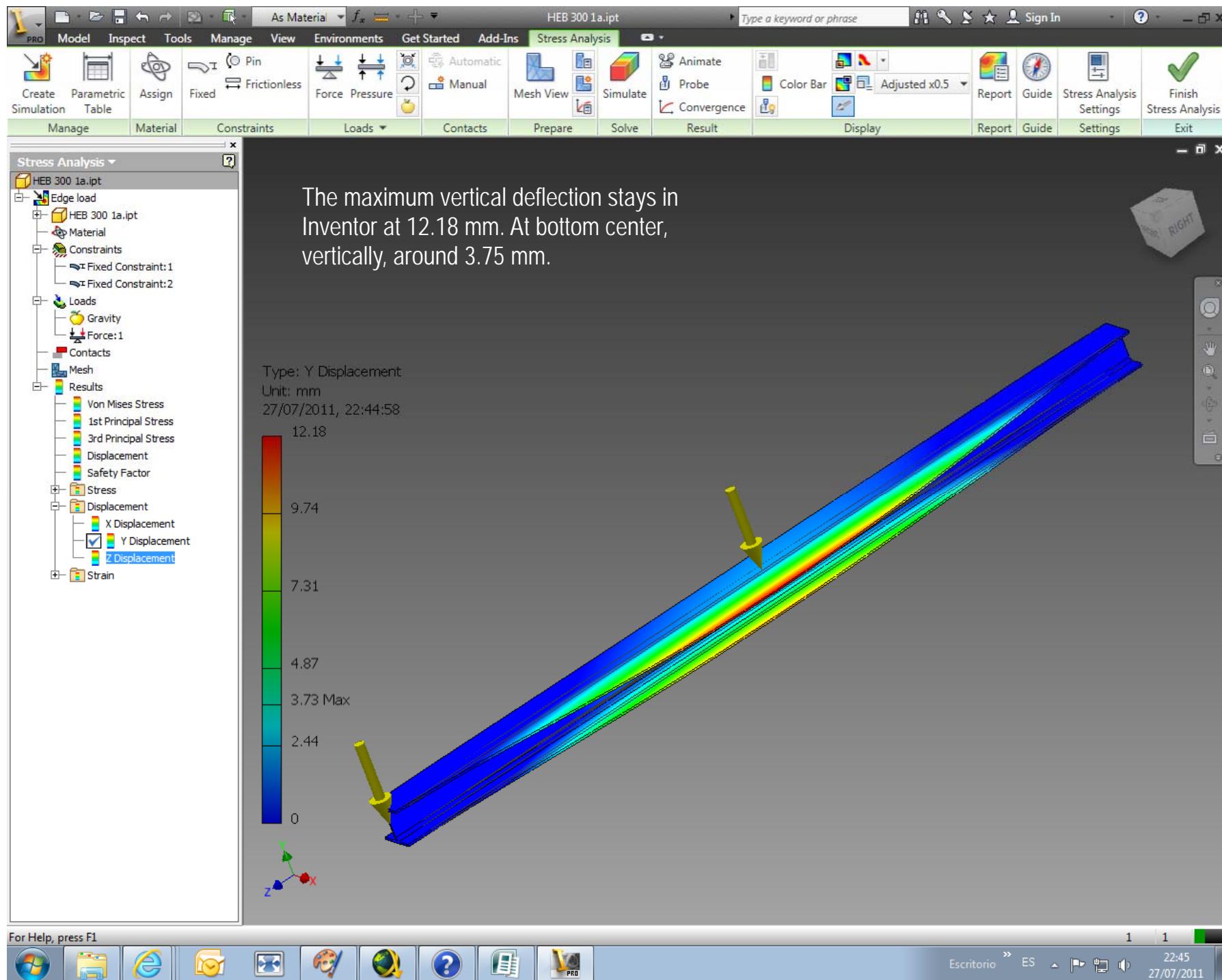
Now the Edge Load of 21 tonne. The left arrow is gravity direction, and in not an impressive display of graphical expression (bump removed) the central load represents now the load distributed on the right top edge.



For Help, press F1



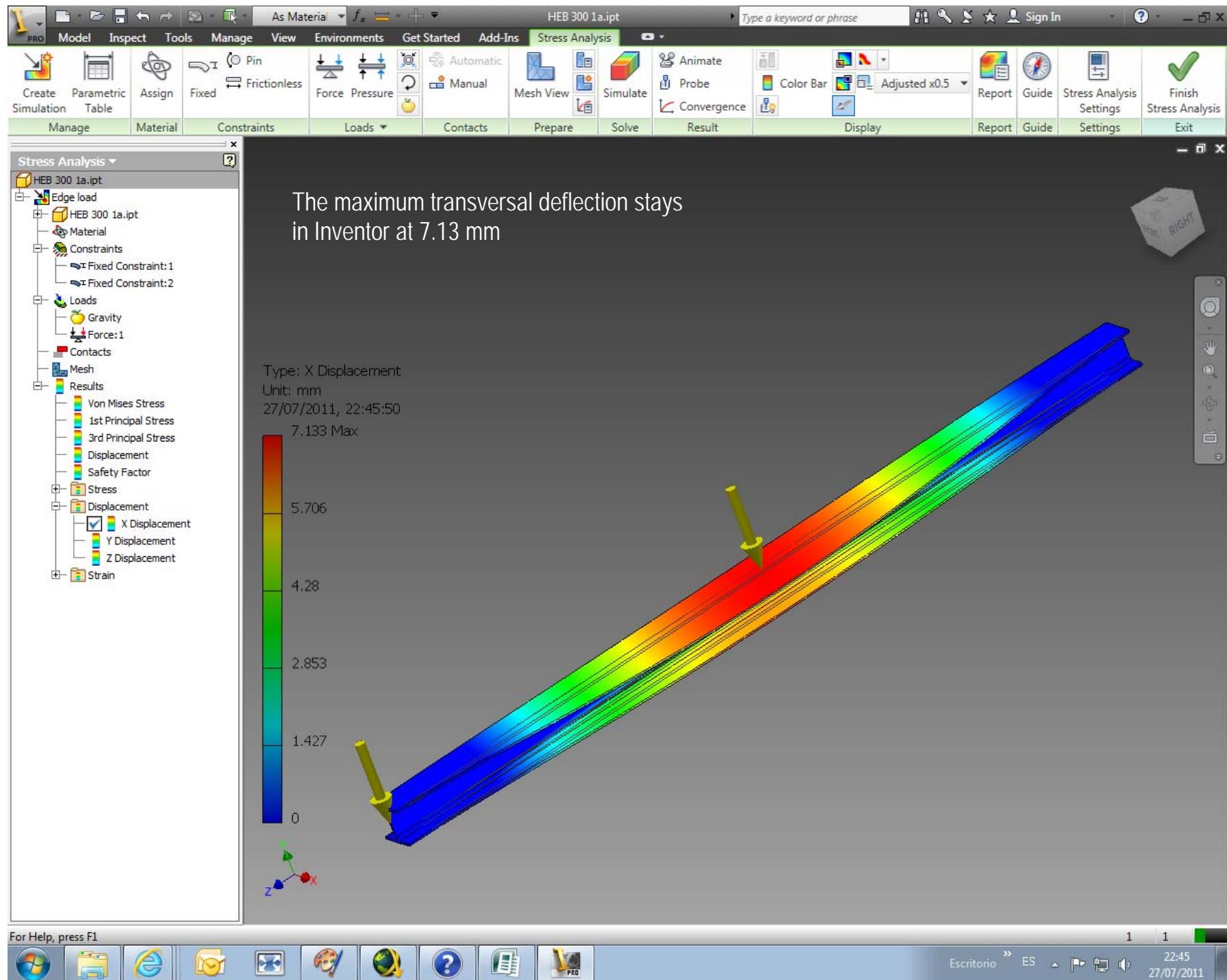
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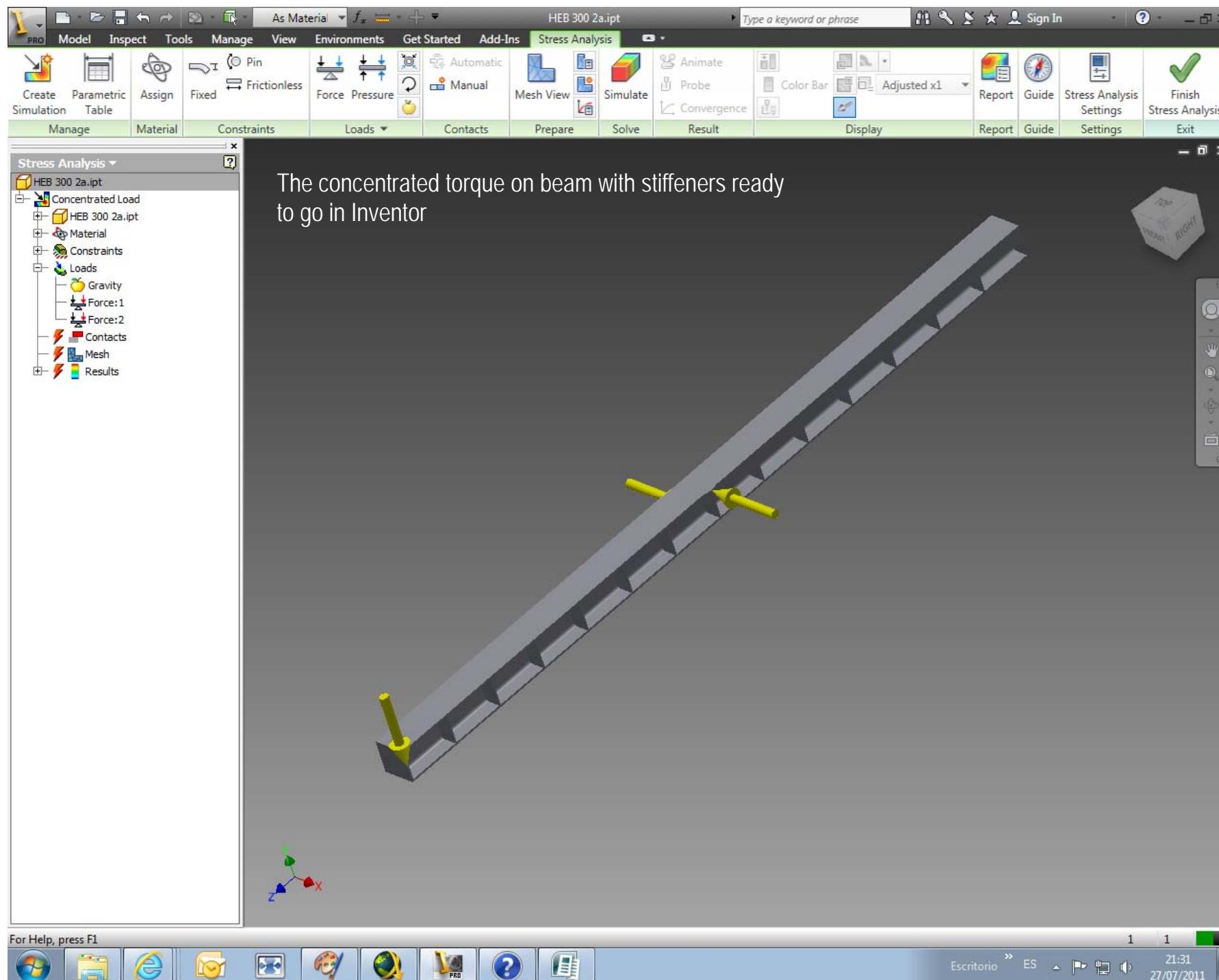


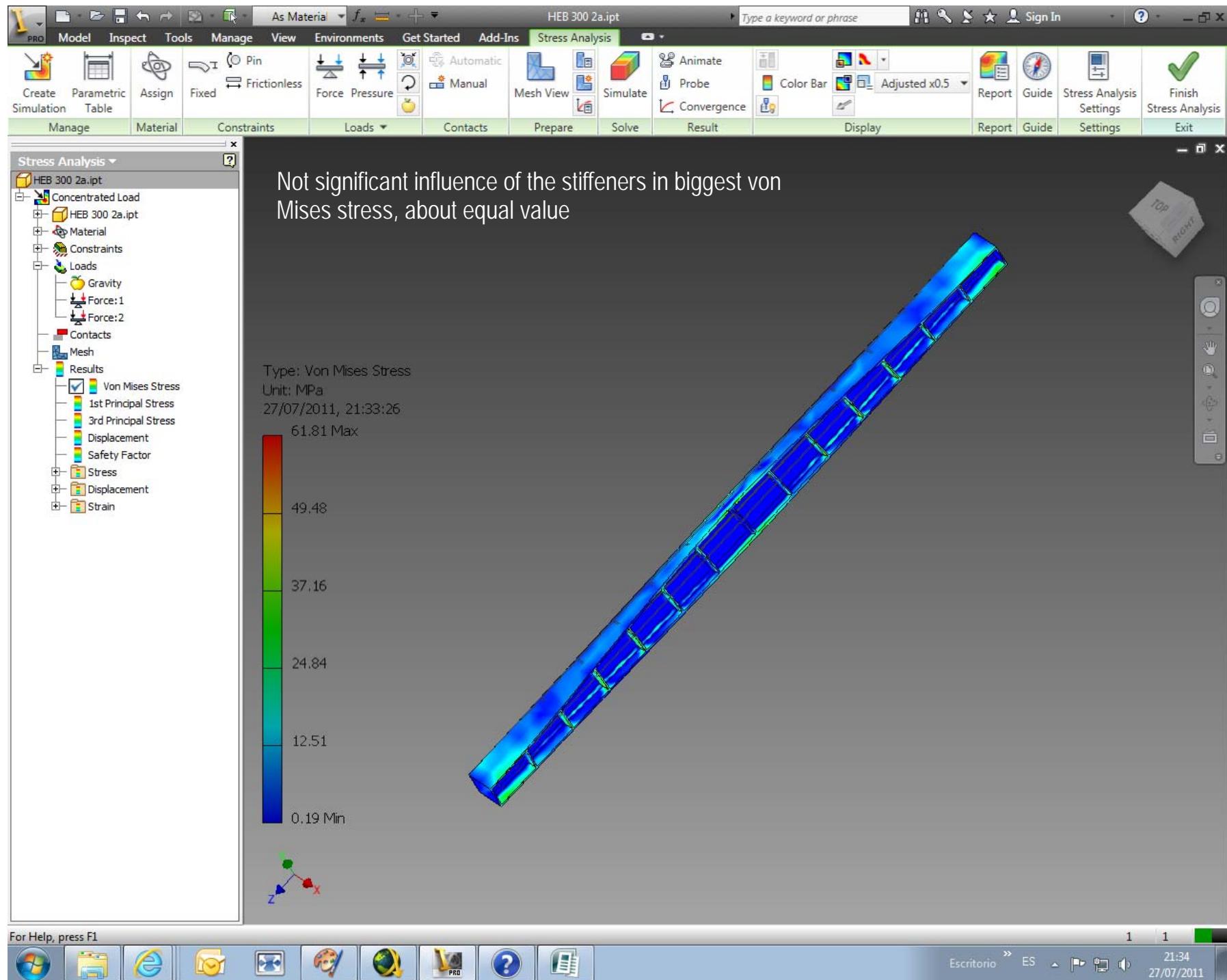
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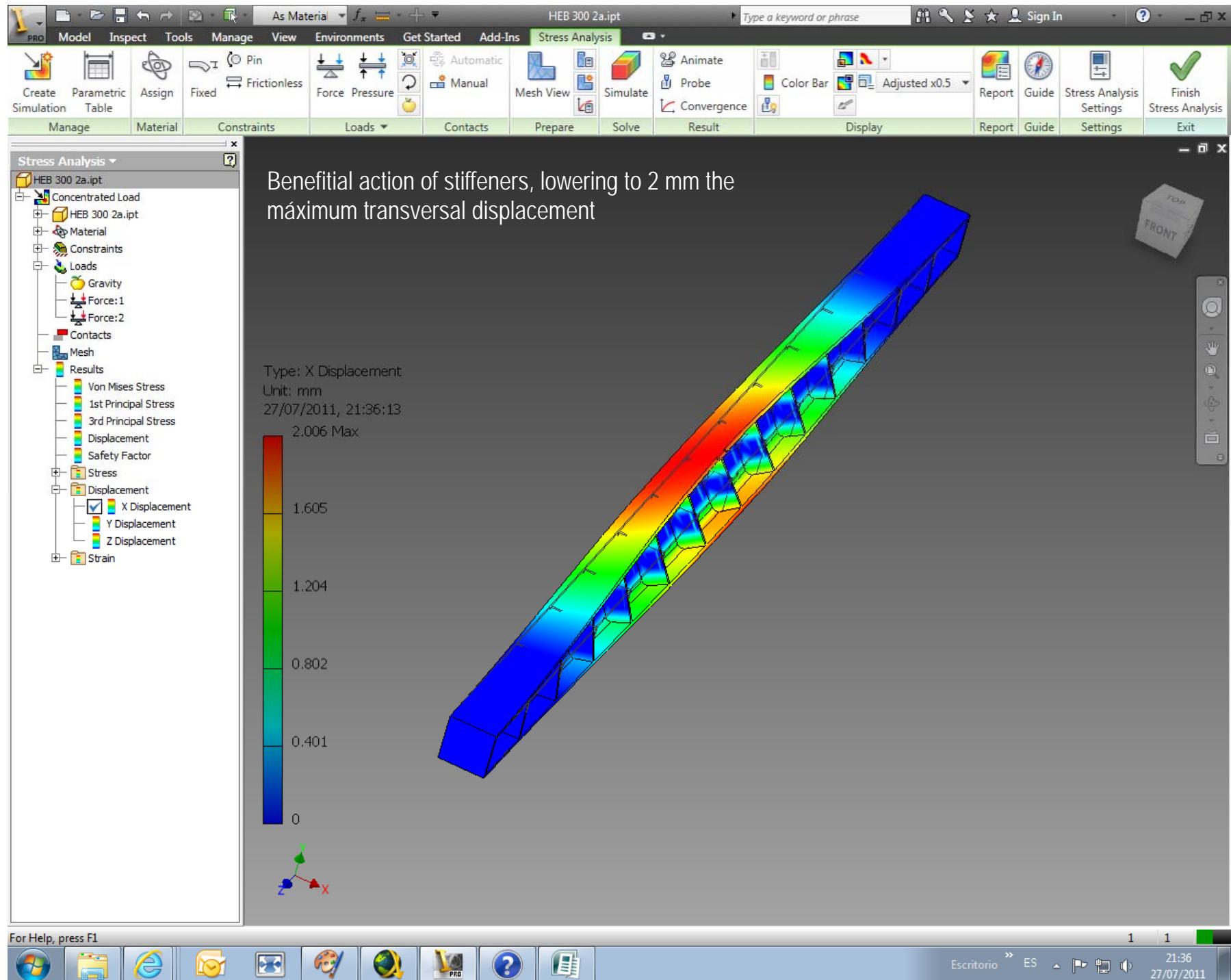


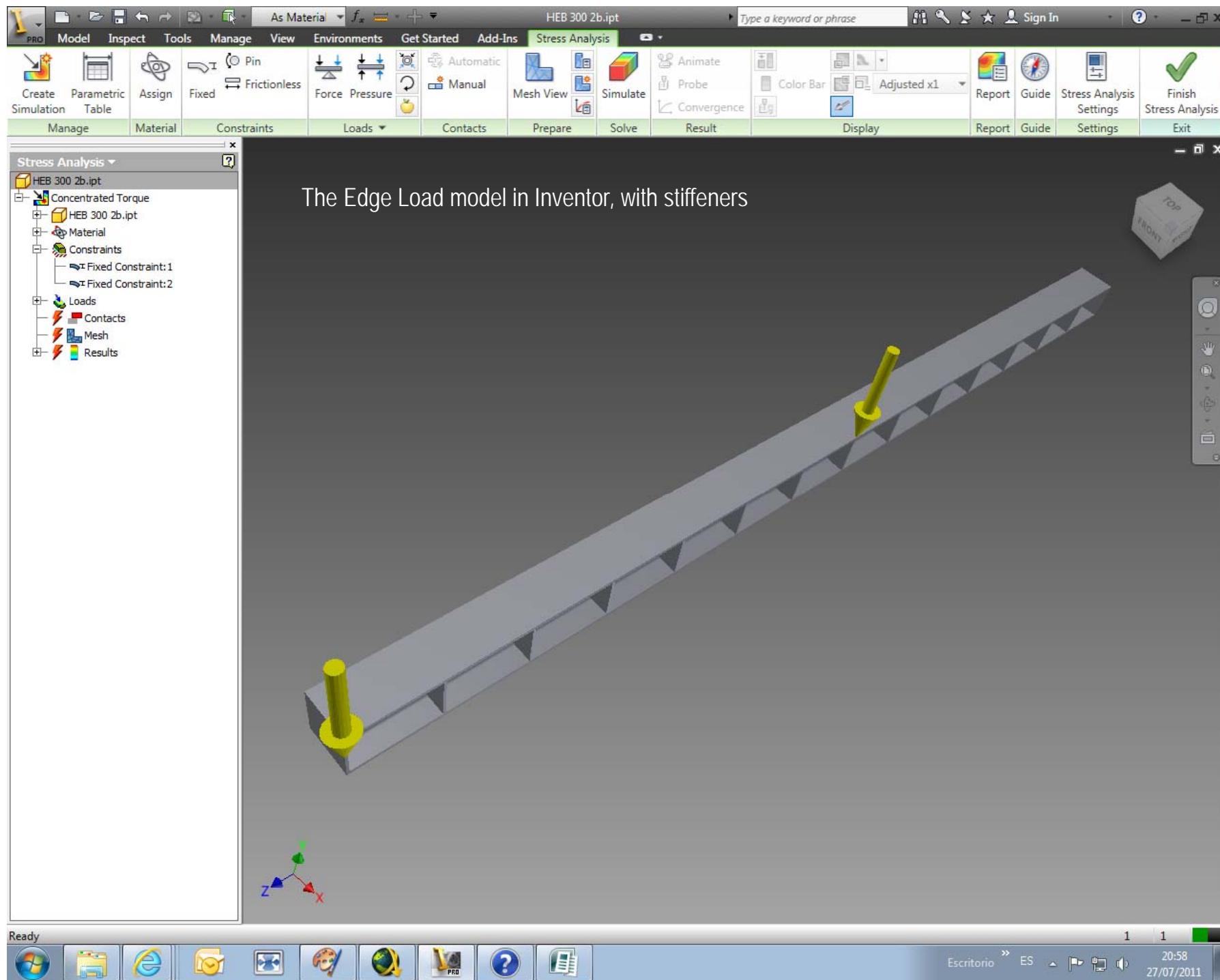
Escritorio 22:45
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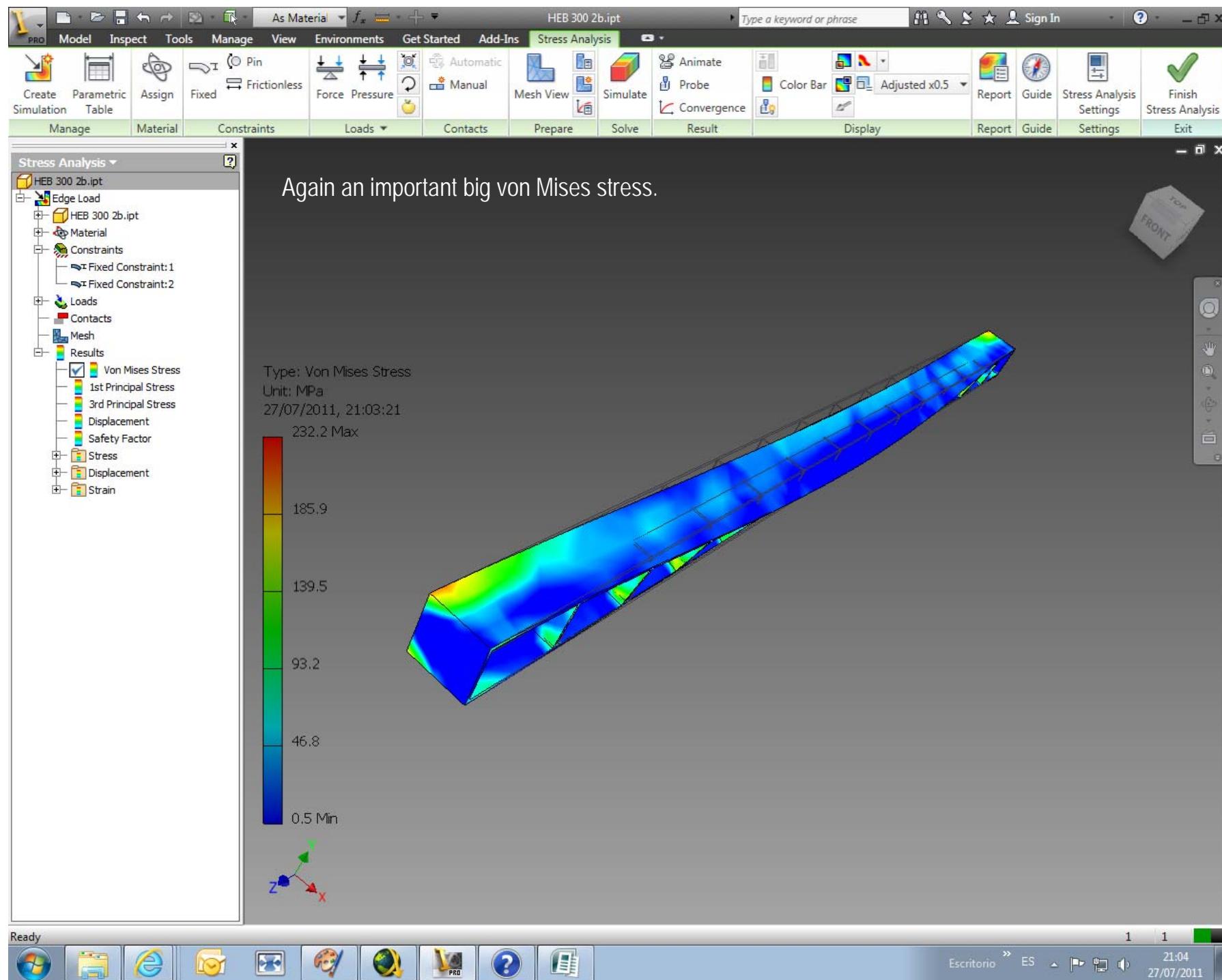


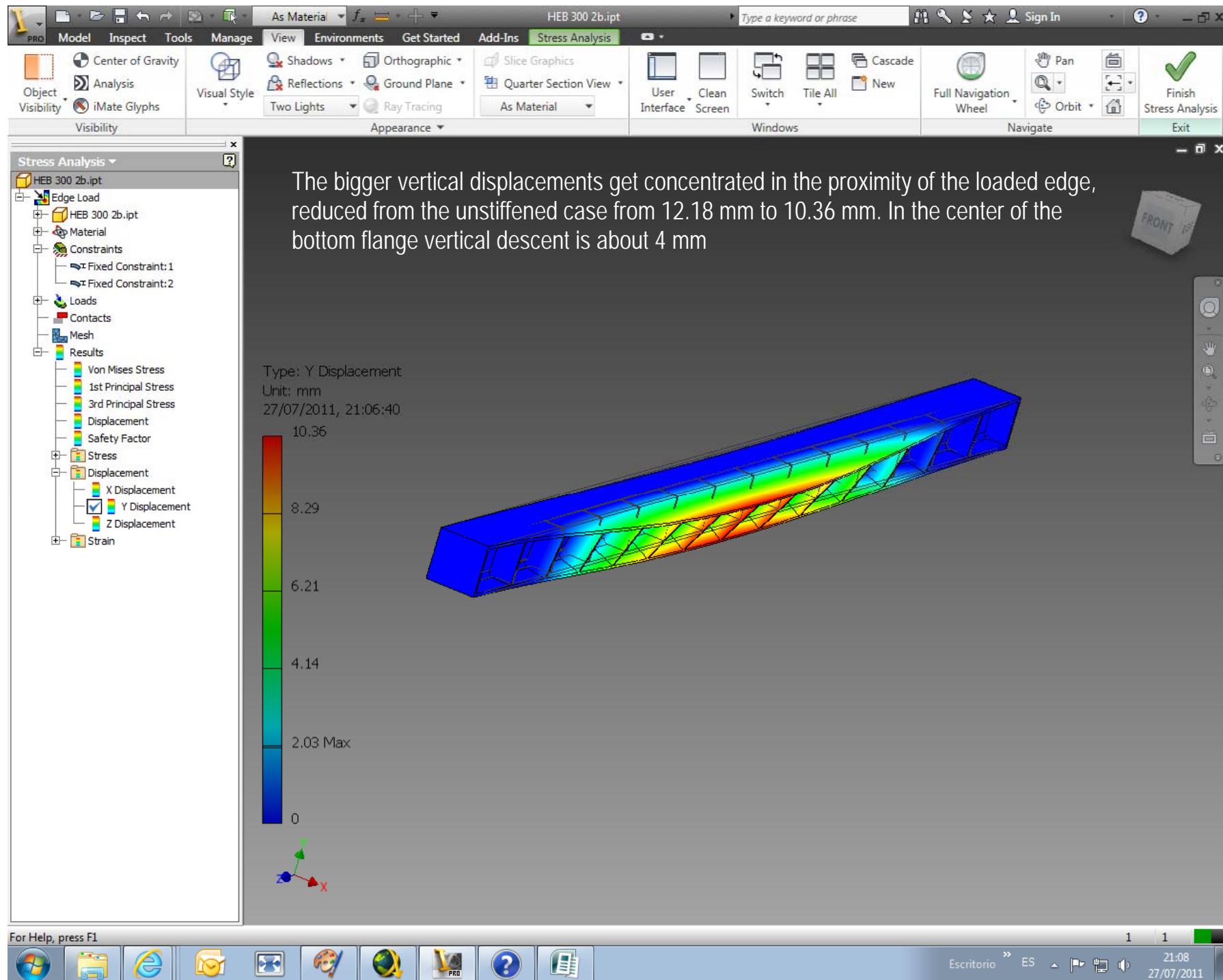


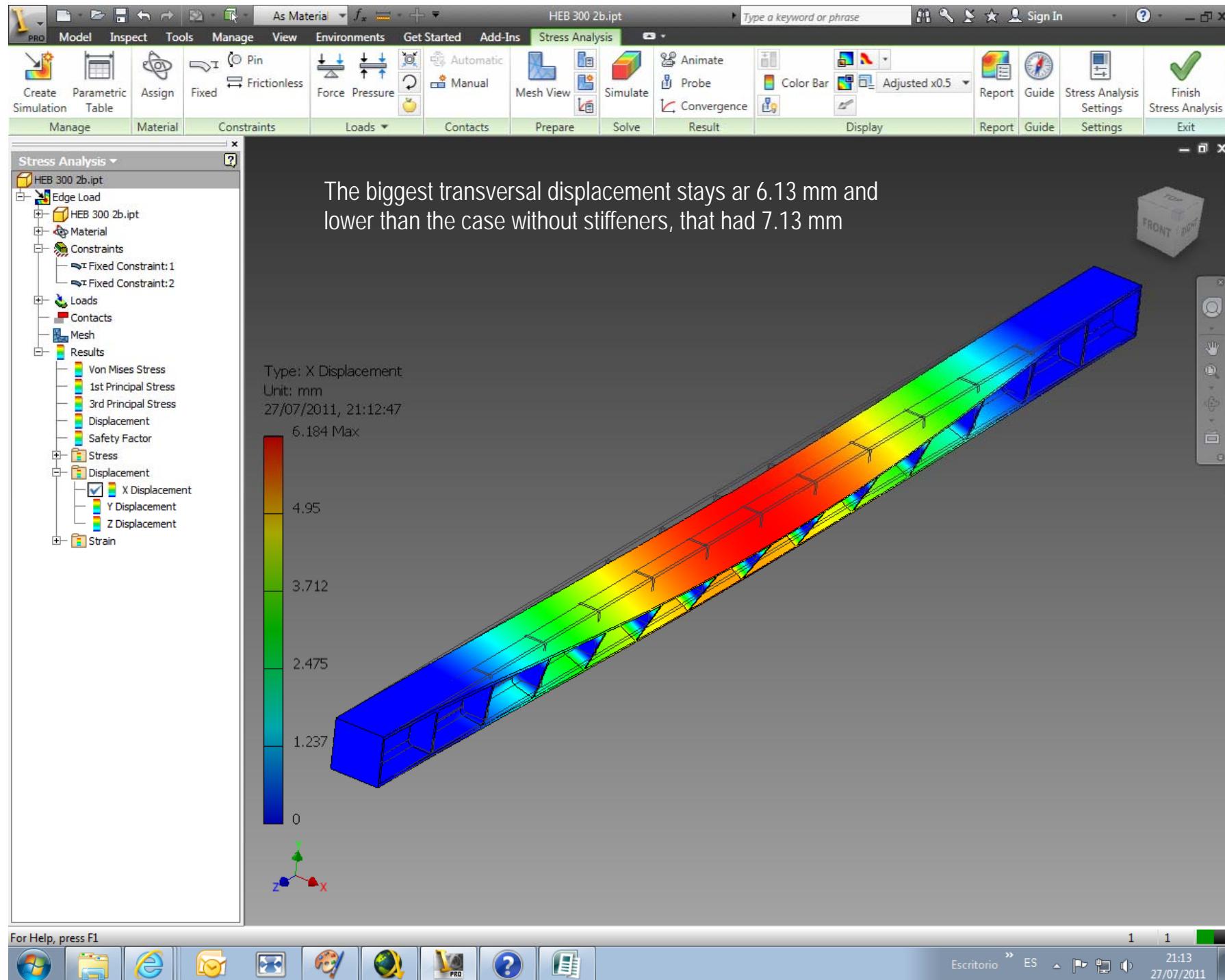












CONCENTRATED TORQUE MODEL		AS	RISA 3D	SAP2000	INVENTOR
MAXIMUM DETECTED VON MISES STRESS Mpa	WITHOUT STIFFENERS	14	44	46	55
MAXIMUM DETECTED VON MISES STRESS Mpa	WITH STIFFENERS	46	39.9	46	61
MAXIMUM TRANSVERSAL DEFLECTION mm	WITHOUT STIFFENERS	0.32	2.78	2.3	2.4
MAXIMUM TRANSVERSAL DEFLECTION mm	WITH STIFFENERS	2.08	2.19	2.2	2

EDGE LOAD MODEL		AS MODEL	RISA 3D MODEL	SAP2000	INVENTOR
MAXIMUM DETECTED VON MISES STRESS Mpa	WITHOUT STIFFENERS	79	257		270
MAXIMUM DETECTED VON MISES STRESS Mpa	WITH STIFFENERS	202	196		232
MAXIMUM VERTICAL DEFLECTION mm	WITHOUT STIFFENERS	4	16		12.18
MAXIMUM VERTICAL DEFLECTION mm	WITH STIFFENERS	9	12		10.36
MAXIMUM TRANSVERSAL DEFLECTION mm	WITHOUT STIFFENERS	0.13	8.12		7.13
MAXIMUM TRANSVERSAL DEFLECTION mm	WITH STIFFENERS	4.55	6.41		6.13