Finite Element Analysis

Analysing the results.

Having got a solution we now come on to step 6 - post processing the FEA model.
So as you can see here we've got the displaced shape of the torsion test and you can clearly see the movement that effectively means that it behaves like a torque tube towards the front of the car. There's a large amount of rotation going on and very little displacement vertically and that is again a function of the constraint case that we use which makes the other half of the car think that it's being loaded in the opposite direction. And again you can see that a large amount of the movement comes from having this big hole in the top of the cockpit where rather inconveniently the driver needs to go. If it wasn't for that we could be a lot, lot stiffer so that's obviously the area we concentrate on in terms of stiffening the car to try and meet targets each season.