



TSUS e-Brief 2022 | Issue 2

Have you ever grappled with the question of whether it would be better to create a team to do in-house simulation or if outsourcing is the better choice? This article, [In-house or Outsourced Simulation for Product Development](#), posted on the TotalSim web site discusses just this dilemma.

TotalSim's Support of In-house Simulation

As was mentioned in our last e-Brief, some of our friends and clients know us for our support of clients using OpenFOAM® with TotalSim's suite of pre- and post-processing tools to improve efficiency. We support automotive manufacturing and motorsports clients with these tools.

OpenFOAM as open source simulation software can be a real value to companies conducting CFD simulation; however, for those of you that have used it, you understand it can be overwhelming to get started. Our support using TotalSim's customized version of OpenFOAM can help you get started or even evaluate your current practices to see if there are ways that you can improve. As a support customer you receive training that includes using all the TotalSim tools, advice on best practices and access to our documentation, best practice guides, tips and tutorials.

Pre-processing - making sure that your simulations are set up properly at the start goes a long way in improving efficiency as these kinds of mistakes are a common cause of lost efficiency. TotalSim's suite includes tools like Ride Height Changer that makes the changes needed from run to run with the minimum amount of effort.

Post-processing - taking all the data that is generated by simulation and sifting through it for the information you need is another very time consuming task. Our postprocessing tools allow you quickly create images or plots to compare your data run to run.

Not an OpenFOAM user? That's ok. We can support you there too. We create automation tools to support our use of many commercial and

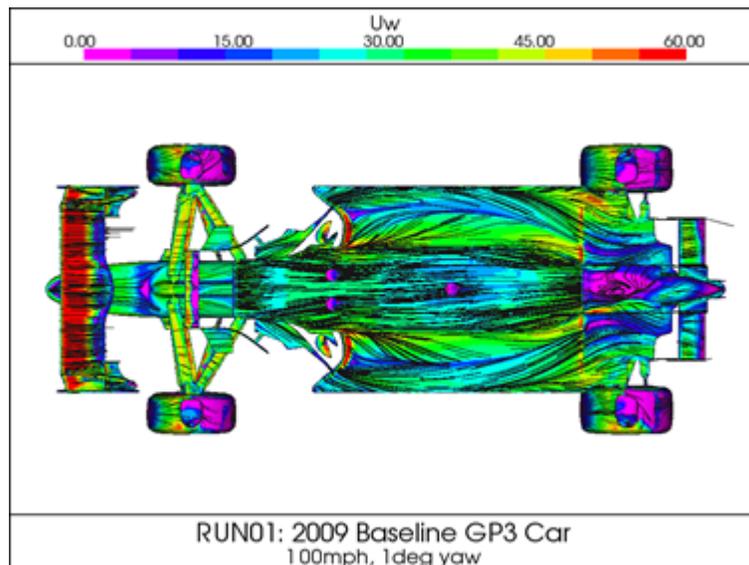
government computational tools in our consulting practice and we can do the same for you. Whether you want to automate a single repetitive task or streamline your repetitive workflow, the TotalSim team has the experience to help. We want to make the process as accurate and repetitive as possible so you have confidence in your results.

In need of Outsourced Simulation?

We work with clients from small startups to large OEMs and everything in between. Our last eBrief covered some of the many businesses and industries that we support.

Our highly collaborative nature is who we are and what makes us stand apart from other consulting firms. Additionally, our racing background has taught us to be thorough and accurate, but we do it at the speed of racing where results are needed in time for the next race or they are irrelevant. We apply that mentality to all the work that we do - producing results so that you can move forward with decisions quickly and decisively.

Thanks for following along with the TotalSim journey! Don't hesitate to reach out if you have any questions or just want to chat with us.



Southern California Visit

Ray and Naethan will be working out of the California office in early April. They are setting up meetings with current clients and potential clients during the visit. If you would like to discuss any past or upcoming projects they would like to get you on the schedule before it fills up. Reach out and we will make it happen!

Check out our website!



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