Fast and furious: 7 apps primed for the gigabit Internet


When gigabit Internet brings jaw-dropping speed, these apps will be ready to make good use of it.

Simulation-as-a-service for advanced manufacturing

Fat modeling and simulation software like AutoCAD, Paraview, Matlab, and Moldflow traditionally don't lend themselves well to real-time collaboration over the Internet. Prasad Calyam and his team are looking to speed up manufacturing
processes by creating a cloud-based SMaaS (simulation as a service), though which teams of remote users could use thin apps and cloud apps to collaborate in real time on building and improving advanced manufacturing components.

The project entails establishing a hybrid cloud with VMware Horizon and HP GENI Rack hardware and with data centers at Tech-DEC in Dublin, Ireland, and the Ohio Supercomputer Center. According to the developer, who took home $25,000 from the Ignite awards, the service is already being used for purposes like computational fluid dynamics design.