

The Prodiguer Messaging Platform

Sebastien Denvil, Nicolas Carenton, Guillame Levavasseur Jerome Raciazek, & Mark Greenslade

CNRS, IPSL, Institut Pierre Simon Laplace, Global climate modelling group, Paris, France



The IPSL runs highly complex climate simulations upon a heterogeneous set of isolated HPC environments. A distributed messaging platform is radically enhancing the power of the IPSL simulation runtime environment. Simulation control, monitoring, metrics, documentation & data related messages are published to a message broker for processing. Machine intelligence is thus enhanced & the system becomes adaptive.

