

Open Source Initiative Powers Real-Time Data Streams



Dryden Flight Research Center

Open Source DataTurbine Initiative San Diego, California

NASA Technology

- ◆ An experiment at Dryden to collect flight data led to the development of the Ring Buffered Network Bus (RBNB), software to stream data in real-time
- ◆ RBNB found use at NASA as “middleware,” or software that can receive any kind of input and use it to create any kind of output



Partnership

- ◆ Matthew Miller of Create Inc. developed RBNB under a Phase I Small Business Innovation Research (SBIR) contract
- ◆ Following interest from academic researchers, scientists, and government organizations, Miller worked with Create to release the software under an open source license

Benefits

- ◆ The Open Source DataTurbine Initiative was founded in 2007, making RBNB available to anyone for free
- ◆ DataTurbine allows researchers to stream live data and lets them pause or rewind feeds
- ◆ The software has been deployed with sensors in diverse settings around the globe