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14. ABSTRACT

There is currently quite a bit of development taking place within the DoD flight test range community in "Big Data" computing. A problem plaguing development is a lack of suitable data sets for development and test of software analysis tools. Most actual flight test data has restricted distribution and so isn't available for many developers. Also, it can be difficult to find actual recorded flight test data which have "interesting" properties such as specific flight profiles and events.

Synthesized IRIG 106 Chapter 10 format flight test data solves these problems by providing data files to developers that are very similar to what might be expected from an actual flight test. Synthetic data files are complete and properly formed data files that contain fake but realistic flight test data as if it had been recorded during an actual flight test. The data in these data files is designed to provide interesting test cases for software tool developers to use.

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