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14. ABSTRACT
There is currently quite a bit of development taking place within the DoD test range community in "Big Data" computing. A problem plaguing development is a lack of suitable data sets for development and test. 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.
Synthetic IRIG 106 Ch 11 format flight test data solves these problems by providing data files that are very similar to what might be expected from an actual flight test. Synthetic data files are 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 developers to use.
A synthetic IRIG 106 data file is a complete and properly formed data file in compliance with IRIG 106. Currently these synthetic data files contain a number of different IRIG 106 Ch 11 data types including MIL-STD-1553, PCM, and video.
This presentation will discuss the design approach and current status of this effort

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