

An Introduction to Video Compression by Delta Digital Video

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With the growing complexity of flight test programs and the improved efficiency of compression algorithms, video is an ever increasing component of flight test data collection. This presentation offers a description of how video compression works and the trade-offs that can be made when selecting and implementing video compression components. It will also examine the effects of video compression on video quality and investigate some of the causes and resolutions of quality problems.

H.264 vs H.265 Video Compression presented by Delta Digital and AMPEX

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Abstract: This paper discusses the application of two of the latest video encoding approaches for test platforms, particularly in bandwidth-constrained and over imperfect (lossy) transmission links. High Efficiency Video Coding (HEVC or H.265) is compared with MPEG-4 Advanced Video Coding (AVC or H.264), and the behavior of both in low bandwidth and lossy transmission channels is explored, concentrating on the ability to transmit usable information over low bandwidth links using each approach.

Comparison of the same video simultaneously compressed heavily for constrained links and lightly for on-board storage is used to illustrate the effects of heavy compression on video usability, as well as side-by-side comparison of the output of both video encoding algorithms as implemented in a rugged airborne package.

Microchip SyncServer S650 is a DISA/DoDIN Approved Product

DISA/DoDIN Approved Product



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