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STUDY GROUP XV - CONTRIBUTION

SOURCE : U. S. A.

TITLE : TEST SEQUENCES FOR VIDEOCONFERENCE IMAGE CODING SIMULATIONS

We have digitized seven sequences of motion video obtained from the analog NTSC videotape produced by Delta Information Systems (DIS) and provided by Dick Schaphorst. The sequences should be suitable for coding at or below 384 kbits/sec.

The images were all taken from a live NTSC color television camera. No camera motion, zooming or scene changes were included since these would, in all likelihood, overload any codec operating at these bit rates. Digitization was at four times NTSC color subcarrier using 8-bits per pel. Sampling of the active area plus part of the blanking in each field gave 800 pels/line and 240 lines/field for a total of 192000 bytes/field. The tape format is 8000 bytes/record, or 24 records/field.

Six seconds, ie, 180 frames or 360 interlaced fields, were recorded for each sequence. The first field contains the top line of the first frame. This requires two reels of 1600 bpi tape for each sequence.

A brief description of the image data follows:

- SEQ4 - Three persons seated at a table. Slow movement with not much detail. Recording began 22 seconds after the start of the DIS segment, after the scene change.
- SEQ9A - Three persons seated at a table. Average movement with a fair amount of color detail. Recording began 2 seconds after the start of the DIS segment.
- SEQ9B - Similar to the above. Recording began 17 seconds after the start of the DIS segment, after the scene change.
- SEQ13 - Person's hand drawing part of a diagram. Recording began 6 seconds after the start of the DIS segment, after the paper was positioned.
- SEQ20A- One person (female) close up. Animated movement with not much detail. Recording began 2 seconds after the start of the DIS segment.
- SEQ20B- One person (male) close up. Average movement with not much detail. Recording began 22 seconds after the start of the DIS segment, after the scene change.
- SEQ38 - Split screen, three persons on top and three on the bottom. Animated movement with a fair amount of color detail. Recording began 2 seconds after the start of the DIS segment.