

**INTERNATIONAL ORGANISATION FOR STANDARDISATION
 ORGANISATION INTERNATIONALE DE NORMALISATION
 ISO/IEC JTC 1/SC 29/WG 4
 MPEG VIDEO CODING**

ISO/IEC JTC 1/SC 29/WG 4 m 61131

October 2022, Mainz, DE

Title: [MIV] Change of letter identifiers of test sequences in MIV CTC
Source: Adrian Dziembowski, Dawid Mieloch (PUT)

Abstract

Addition of another sequence for VT purposes (“Balloons”) exposed a problem with sequence identifiers. Currently, 24 out of 26 English letters are used. We recommend changing the naming convention and use letters for “classes”, not single sequences, and setting new identifiers for all CTC and VT sequences as proposed in this document.

1 Introduction

Currently, 24 out of 26 English letters are used:

- 16 for CTC sequences,
- 8 for VT sequences (highlighted in red).

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | XX |
|----------------|--------|--------|---------|------|-----------|----------|-------------|--------|---------|-----------|---------|---|-------|-----|---------|-------------|-------|---------------|------|--------|---|---------|-----------|-----------|------|----------|
| ClassroomVideo | Museum | Hijack | Painter | Frog | Guitarist | Cadillac | BabyUnicorn | Mirror | Kitchen | Breaktime | Fencing | | Chess | Fan | Carpark | ChessPieces | Group | CBABasketball | Hall | Street | | Dancing | Cyberpunk | Breakfast | Barn | Balloons |

Sequence “Balloons” became sequence XX, what is inconvenient and may be not compatible with several scripts and operations (e.g., using wildcards).

Only two letters are unassigned:

- M,
- V (previously used for *Trio*, not used anymore).

We recommend changing the naming convention and use letters for “classes”, not single sequences.

2 Proposal

| | Computer-generated | Natural content |
|---------------------------------|--------------------|-----------------|
| ERP, full 360 | A | Z |
| ERP, 360 scene, non-360 cameras | B | Y |
| ERP, non-360 scene | C | X |
| Perspective, camera array | J | D |
| Perspective, linear system | I | E |
| Perspective, inwards system | W | L |
| Perspective, outwards system | O | Q |
| Static content | S | |

Remarks:

- at this moment, only bolded classes would be populated,
- letters were chosen on purpose, based on current ids of sequences inside, e.g., class D is named after *Painter* sequence (first CTC sequence captured by camera array, current id: D), E after *Frog* (current id: E), etc.,
- letter W (after *Dancing*) was chosen instead of R (after *Group*) to avoid mistakes in file naming (R can be used for signaling of different rate points, resulting in confusing filenames, e.g., A97_R01_1920x1080_yuv420p10le_R2.yuv),
- non-bolded letters are just suggestions at this moment, they do not need to be defined yet.

| | |
|---|---|
| <p>Class A:</p> <ul style="list-style-type: none"> • A01 – ClassroomVideo, <p>Class B:</p> <ul style="list-style-type: none"> • B01 – Museum, • B02 – Chess, | <p>Class D:</p> <ul style="list-style-type: none"> • D01 – Painter, • D02 – BabyUnicorn, • D03 – Breakfast, • D04 – Barn, • D05 – Breaktime, |
|---|---|

| | |
|--|--|
| <ul style="list-style-type: none"> • B03 – ChessPieces, • B04 – Guitarist, <p>Class C:</p> <ul style="list-style-type: none"> • C01 – Hijack, • C02 – Cyberpunk, <p>Class J:</p> <ul style="list-style-type: none"> • J01 – Kitchen, • J02 – Cadillac, • J03 – Mirror, • J04 – Fan, <p>Class W:</p> <ul style="list-style-type: none"> • W01 – Group, • W02 – Dancing, | <ul style="list-style-type: none"> • D06 – Balloons, <p>Class E:</p> <ul style="list-style-type: none"> • E01 – Frog, • E02 – Carpark, • E03 – Hall, • E04 – Street, <p>Class L:</p> <ul style="list-style-type: none"> • L01 – Fencing, • L02 – CBABasketball. |
|--|--|

3 Recommendation

We recommend:

- changing the naming convention and use letters for “classes”, not single sequences,
- setting new identifiers for all CTC and VT sequences as proposed in this document.

4 Acknowledgement

This work was supported by Ministry of Science and Higher Education of Republic of Poland.