

g++: run make in ./linux/

Binaries in ./linux/bin/

```

Usage: ValidatemP4 [-filetype <type>] [-printtype <options>] [-checklevel <level>] [-infofile <Segment Info File>] [-leafinfo <Leaf
Info File>] [-segal] [-ssegal] [-startwithsap TYPE] [-level] [-bss] [-isolive] [-isoondemand] [-isomain] [-dynamic] [-dash264base]
[-samplenumber <number>] [-verbose <options>] [-help] inputfile
-a[atmpath] <atmpath> - limit certain operations to <atmpath> (e.g. moov-1:trak-2)
    this effects -checklevel and -printtype (default is everything)
-p[rinttype] <options> - controls output (combine options with +)
    atmpath - output the atmpath for each atom
    atom - output the contents of each atom
    fulltable - output those long tables (e.g. samplesize tables)
    sample - output the samples as well
        (depending on the track type, this is the same as sampleraw)
    sampleraw - output the samples in raw form
    hintpayload - output payload for hint tracks
-c[hecklevel] <level> - increase the amount of checking performed
    1: check the moov container (default -atmpath is ignored)
    2: check the samples
    3: check the payload of hint track samples
-infofile <Segment Info File> - Offset file generated by assembler
-leafinfo <Leaf Info File> - Information file generated by this software (named leafinfo.txt) for another representation, provided
to run for cross-checks of alignment
-segal - Check Segment alignment based on <Leaf Info File>
-ssegal - Check Subsegment alignment based on <Leaf Info File>
-isolive Make checks specific for media segments conforming to ISO Base media file format live profile
-isoondemand Make checks specific for media segments conforming to ISO Base media file format On Demand profile
-isomain Make checks specific for media segments conforming to ISO Base media file format main profile
-dynamic MPD type=dynamic
-startwithsap Check for a specific SAP type as announced in the MPD
-level SubRepresentation@level checks
-bss Make checks specific for bitstream switching
-dash264base Make checks specific for DASH264 Base IOP
-s[samplenumber] <number> - limit sample checking or printing operations to sample <number>
    most effective in combination with -atmpath (default is all samples)
-h[elp] - print this usage message

```

Output and errors (if any) will be printed on the console.

Description of `-infofile` and `-leafinfo` is provided in the following sections.

Segmented files must first be re-assembled. A script “Assemble” is provided with the following usage.

```
Assemble [1/0] (initialization segment) [segment 1] [segment 2]... [last
segment]
```

1: first file is an initialization segment, 0 otherwise.

Typical usage would look like:

```
Assemble 1 [initialization segment] [segment 1] [segment 2]... [last segment]
```

or

```
Assemble 0 [segment 1] [segment 2]... [last segment]
```

depending whether or not an initialization segment is provided. The entries in square brackets are the names of the respective segments. To ease this, place all the segments in the same folder as the script itself. This script generates an assembled file “tempMerged.mp4” and a corresponding segment information file “segmentSizeInfoFile.txt”. The former file will be the inputfile and the latter will be used in conjunction with `-infofile` for segment validation.

Tip to make life easier: The above construct works reasonably well except when you start having to merge hundreds of segments for a representation. This can be automated easily e.g. by sorting the directory numerically and formatting the output as in the command:

```
ls | sort -n | tr '\n' ' '
```

This will make sure that, e.g. Segment 10 is listed *after* Segment 2. One can copy the relevant section of the output of the above command and use it to construct the command syntax for “Assemble” script above.

### **2.3 For segment/subsegment Alignment checks:**

ValidateMP4.exe creates a leaf subsegment information file “leafinfo.txt”. If segment or subsegment alignment of a representation B is to be cross checked with representation A:

1. Run `ValidateMP4.exe representation A`
2. Run `ValidateMP4.exe representation B -leafinfo leafinfo.txt -segal` or `ValidateMP4.exe representation B -leafinfo leafinfo.txt -ssegal` (for checking segment or subsegment alignment, respectively)

## **3 Features**

Refer to features.doc file.