# Compilation:

g++: run make in ./linux/

# Usage Information:

Binaries in ./linux/bin/

## For non-segmented files:

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| --- |
| Usage: %s [-filetype <type>]  [-printtype <options>] [-checklevel <level>] [-infofile <Segment Info File>] [-leafinfo <Leaf Info File>] [-segal] [-ssegal] [-startwithsap] [-level] [-isolive] [-isoondemand] [-isomain]\n", "ValidateMP4" );  [-samplenumber <number>] [-verbose <options> [-help] inputfile  -a[tompath] <atompath> - limit certain operations to <atompath> (e.g. moov-1:trak-2)  this effects -checklevel and -printtype (default is everything)  -p[rinttype] <options> - controls output (combine options with +)  atompath - output the atompath 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 -atompath is ignored)  2: check the samples  3: check the payload of hint track samples  -i[nfofile] <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 Subegment 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  -startwithsap Check for a specific SAP type as announced in the MPD  -level SubRepresentation@level checks  -bss Make checks specific for bitstream switching  -s[amplenumber] <number> - limit sample checking or printing operations to sample <number>  most effective in combination with -atompath (default is all samples)  -h[elp] - print this usage message |

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

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

## For segmented files:

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,...

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

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.

## 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)