

gst-inspect-1.0 mpegtsmux

Factory Details:

Rank	primary (256)
Long-name	MPEG Transport Stream Muxer
Klass	Codec/Muxer
Description	Multiplexes media streams into an MPEG Transport Stream
Author	Fluendo <contact@fluendo.com>
Documentation	https://gstreamer.freedesktop.org/documentation/mpegtsmux/mpegtsmux.html

Plugin Details:

Name	mpegtsmux
Description	MPEG-TS muxer
Filename	/usr/lib/x86_64-linux-gnu/gstreamer-1.0/libgstmpegtsmux.so
Version	1.26.2
License	LGPL
Source module	gst-plugins-bad
Documentation	https://gstreamer.freedesktop.org/documentation/mpegtsmux/
Source release date	2025-05-29
Binary package	GStreamer Bad Plug-ins source release
Origin URL	Unknown package origin

GObject

```
+----GInitiallyUnowned
  +----GstObject
    +----GstElement
      +----GstAggregator
        +----GstBaseTsMux
          +----GstMpegTsMux
```

Element Flags:

Pad Templates:

SINK template: 'sink_%d'
Availability: On request
Capabilities:
video/mpeg
 parsed: true
 mpegversion: { (int)1, (int)2, (int)4 }
 systemstream: false
video/x-dirac
image/x-jpc
 alignment: frame
video/x-av1
 stream-format: obu-stream
 alignment: frame
video/x-h264
 stream-format: byte-stream
 alignment: { (string)au, (string)nal }
video/x-h265
 stream-format: byte-stream
 alignment: { (string)au, (string)nal }

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video/x-h266
    stream-format: byte-stream
    alignment: { (string)au, (string)nal }
video/x-lvc1
    stream-format: byte-stream
    alignment: { (string)au, (string)nal }
audio/mpeg
    parsed: true
    mpegversion: 1
audio/mpeg
    framed: true
    mpegversion: { (int)2, (int)4 }
    stream-format: { (string)adts, (string)raw }
audio/x-lpcm
    width: { (int)16, (int)20, (int)24 }
    rate: { (int)48000, (int)96000 }
    channels: [ 1, 8 ]
    dynamic_range: [ 0, 255 ]
    emphasis: { (boolean>false, (boolean>true }
    mute: { (boolean>false, (boolean>true }
audio/x-ac3
    framed: true
audio/x-dts
    framed: true
audio/x-opus
    channels: [ 1, 255 ]
audio/x-smp2e-302m
subpicture/x-dvb
application/x-teletext
meta/x-klv
    parsed: true
meta/x-id3
    parsed: true
meta/x-st-2038
    alignment: line
video/x-vp9
image/x-jpc
    alignment: frame
    profile: [ 0, 49151 ]
image/x-jxsc
    alignment: frame
    sampling: { (string)YCbCr-4:2:2, (string)YCbCr-4:4:4 }
    interlace-mode: progressive
image/x-jxsc
    alignment: frame
    sampling: { (string)YCbCr-4:2:2, (string)YCbCr-4:4:4 }
    interlace-mode: fields
    field-order: { (string)top-field-first, (string)bottom-field-first }
Type: GstBaseTsMuxPad
Pad Properties:

```

emit-signals : Send signals to signal data consumption

flags: readable, writable
Boolean. Default: false

stream-number : stream number
flags: readable, writable
Integer. Range: 0 - 31 Default: 0

SRC template: 'src'

Availability: Always

Capabilities:

video/mpegts

systemstream: true

packetsize: { (int)188, (int)192 }

Type: GstAggregatorPad

Pad Properties:

emit-signals : Send signals to signal data consumption
flags: readable, writable
Boolean. Default: false

Element has no clocking capabilities.

Element has no URI handling capabilities.

Pads:

SRC: 'src'

Pad Template: 'src'

Element Properties:

alignment : Number of packets per buffer (padded with dummy packets on EOS) (-1 = auto, 0 = all available packets, 7 for UDP streaming)
flags: readable, writable
Integer. Range: -1 - 2147483647 Default: -1

bitrate : Set the target bitrate, will insert null packets as padding to achieve multiplex-wide constant bitrate (0 means no padding)
flags: readable, writable
Unsigned Integer64. Range: 0 - 18446744073709551615 Default: 0

emit-signals : Send signals
flags: readable, writable
Boolean. Default: false

enable-custom-mappings: Enable custom mappings for which there are no official specifications
flags: readable, writable
Boolean. Default: false

latency : Additional latency in live mode to allow upstream to take longer to produce buffers for the current position (in nanoseconds)
flags: readable, writable

Unsigned Integer64. Range: 0 - 18446744073709551615 Default: 0

m2ts-mode : Set to TRUE to output Blu-Ray disc format with 192 byte packets. FALSE for standard TS format with 188 byte packets.

flags: readable, writable

Boolean. Default: false

min-upstream-latency: When sources with a higher latency are expected to be plugged in dynamically after the aggregator has started playing, this allows overriding the minimum latency reported by the initial source(s). This is only taken into account when larger than the actually reported minimum latency. (nanoseconds)

flags: readable, writable

Unsigned Integer64. Range: 0 - 18446744073709551615 Default: 0

name : The name of the object

flags: readable, writable

String. Default: "mpegtsmux0"

parent : The parent of the object

flags: readable, writable

Object of type "GstObject"

pat-interval : Set the interval (in ticks of the 90kHz clock) for writing out the PAT table

flags: readable, writable

Unsigned Integer. Range: 1 - 4294967295 Default: 9000

pcr-interval : Set the interval (in ticks of the 90kHz clock) for writing PCR

flags: readable, writable

Unsigned Integer. Range: 1 - 4294967295 Default: 3600

pmt-interval : Set the interval (in ticks of the 90kHz clock) for writing out the PMT table

flags: readable, writable

Unsigned Integer. Range: 1 - 4294967295 Default: 9000

prog-map : A GstStructure specifies the mapping from elementary streams to programs

flags: readable, writable

Boxed pointer of type "GstStructure"

scte-35-null-interval: Set the interval (in ticks of the 90kHz clock) for writing SCTE-35 NULL (heartbeat) packets. 0=disable (only valid if scte-35-pid is different from 0)

flags: readable, writable

Unsigned Integer. Range: 0 - 4294967295 Default: 27000000

scte-35-pid : PID to use for inserting SCTE-35 packets (0: unused)

flags: readable, writable

Unsigned Integer. Range: 0 - 4294967295 Default: 0

si-interval : Set the interval (in ticks of the 90kHz clock) for writing out the ServiceInformation tables

flags: readable, writable

Unsigned Integer. Range: 1 - 4294967295 Default: 9000

start-time : Start time to use if start-time-selection=set
flags: readable, writable
Unsigned Integer64. Range: 0 - 18446744073709551615 Default:
18446744073709551615

start-time-selection: Decides which start time is output
flags: readable, writable
Enum "GstAggregatorStartTimeSelection" Default: 0, "zero"
(0): zero - GST_AGGREGATOR_START_TIME_SELECTION_ZERO
(1): first - GST_AGGREGATOR_START_TIME_SELECTION_FIRST
(2): set - GST_AGGREGATOR_START_TIME_SELECTION_SET

Element Signals:

"samples-selected" : void user_function (GstElement * object,
GstSegment * arg0,
guint64 arg1,
guint64 arg2,
guint64 arg3,
GstStructure * arg4,
gpointer user_data);