bitMapper

Prerecordsink Plugin

User Manual

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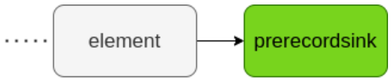
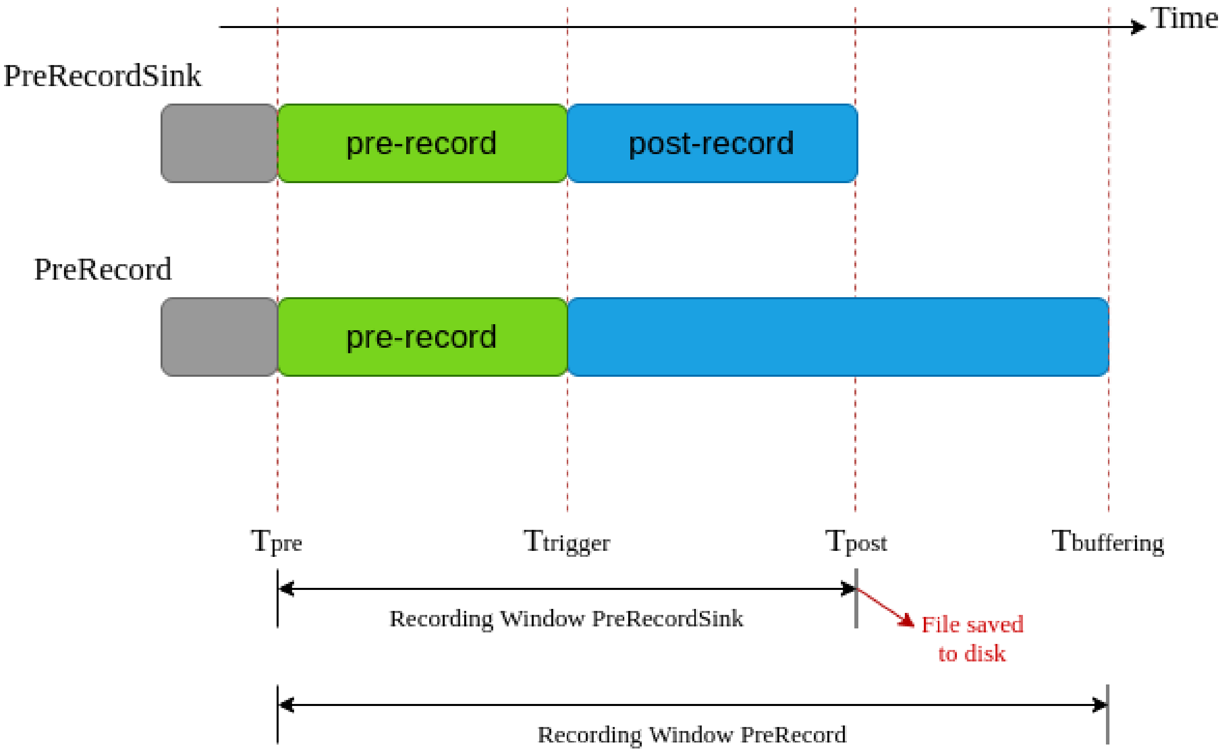
INTRODUCTION

About the Plugin



* GstPreRecordSink works as a sink element

The Prerecordsink element is a filter that prerecords data continuously into a FIFO. You can set the FIFO size in milliseconds (1 - 4294967295 Default: 1024) based on the amount of pre-recorded data you want to keep. When pre-recording, the pre-record element doesn't pass any buffer downstream. After the FIFO is filled, the oldest data in the FIFO is released as new data is added. When you want to start recording, you can trigger the pre-record element and it will pass the data in the FIFO downstream while adding new data to the end of the FIFO buffer so no data is lost. Eventually, the FIFO will be completely drained and the element will act as a pass-through. When the pipeline is stopped, the pre-record process can be repeated.



Gst-inspect-1.0 prerecordsink

```
Factory Details:

  Rank                    none (0)

  Long-name                  prerecordsink

  Klass                  FIXME:Generic

  Description              FIXME:Generic Prerecord Element

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Plugin Details:

  Name                    prerecordsink

  Description              Prerecords the Video before the Interrupt arrives

  Filename                 /home/sarekar/Plugin/gst-template/build/gst-
plugin/libgstprerecordsink.so

  Version                 1.19.0.1

  License                 LGPL

  Source module             gst-template-plugin

  Binary package            GStreamer template Plug-ins
  Origin URL              https://gstreamer.freedesktop.org

GObject
+----GInitiallyUnowned
       +----GstObject
             +----GstElement
                   +----Gstprerecordsink

Pad Templates:
  SINK template: 'sink'
    Availability: Always
    Capabilities:
      ANY

  SRC template: 'src'
    Availability: Always
    Capabilities:
      ANY
Element has no clocking capabilities.
Element has no URI handling capabilities.

Pads:
  SINK: 'sink'
    Pad Template: 'sink'
  SRC: 'src'
    Pad Template: 'src'


Element Properties:
  buffering          : Enable buffering
                       flags: readable, writable
                       Boolean. Default: false
  fifosize           : Duration in milliseconds for the video in FIFO
                       flags: readable, writable
                       Unsigned Integer. Range: 1 - 4294967295 Default: 1024
  location           : File location to save the video stream
                       flags: readable, writable
                       String. Default: null
  name               : The name of the object
                       flags: readable, writable, 0x2000
                       String. Default: "prerecordsink0"
  parent             : The parent of the object
                       flags: readable, writable, 0x2000
                       Object of type "GstObject"
  silent             : Produce verbose output :Mayur's Plugin
                       flags: readable, writable
                       Boolean. Default: false
```

Properties

1) buffering : Enable buffering

flags: readable, writable

Boolean. Default: false

Buffering is the property which tells the pipeline to actually start saving the buffers, by default buffering is false, if made true it means save in FIFO, once the buffering property is set false it starts to append the current video buffers to the FIFO data.

2) fifosize : Duration in milliseconds for the video in FIFO

flags: readable, writable

Unsigned Integer. Range: 1 - 4294967295 Default: 1024

Fifosize is the property which how much milliseconds of video to be stored in FIFO.

3) location : File location to save the video stream

flags: readable, writable

String. Default: null

Location Property is the location to which video stream to be saved.

Example

- Video Pipeline

```
gstd-client pipeline_create testpipe v4l2src ! video/x-
raw,format=YUY2,width=640,height=480,framerate=30/1 ! videoconvert !
x264enc ! prerecordsink name=mayur buffering=true fifosize=20000
location=video.mp4
```

- Playing the Video Pipeline (Storing in FIFO Starts here)

```
gst-client pipeline_play testpipe
```

- Setting the buffering property to false , actual file save starts

```
gst-client element_set testpipe mayur buffering false
```

- Stopping Pipeline

```
gst-client pipeline_stop testpipe
```