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gst-inspect-1.0 xeveenc
Factory Details:
  Rank                    primary (256)
  Long-name               XEVE Video Encoder
  Klass                   Codec/Encoder/Video
  Description             Encode video streams using XEVE
  Author                  Erwan Le Blond <erwanleblond@gmail.com>

Plugin Details:
  Name                    xeveenc
  Description             XEVE Video Encoder
  Filename                /usr/lib/x86_64-linux-gnu/gstreamer-1.0/gstxeveenc.so
  Version                 1.0.0
  License                 LGPL
  Source module           gstxeve
  Binary package          GStreamer
  Origin URL              https://example.com

GObject
 +----GInitiallyUnowned
     +----GstObject
         +----GstElement
             +----GstVideoEncoder
                 +----GstXeveEnc

Implemented Interfaces:
  GstPreset

Element Flags:

Pad Templates:
  SINK template: 'sink'
    Availability: Always
    Capabilities:
      video/x-raw
            format: { (string)I420, (string)I420_10LE }
             width: [ 1, 2147483647 ]
            height: [ 1, 2147483647 ]
         framerate: [ 0/1, 2147483647/1 ]

  SRC template: 'src'
    Availability: Always
    Capabilities:
      video/x-lvc1
             width: [ 1, 2147483647 ]
            height: [ 1, 2147483647 ]
         framerate: [ 0/1, 2147483647/1 ]
      stream-format: byte-stream
         alignment: au

Element has no clocking capabilities.
Element has no URI handling capabilities.
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Pads:
  SINK: 'sink'
    Pad Template: 'sink'
  SRC: 'src'
    Pad Template: 'src'

Element Properties:

  bitrate   : Target bitrate in bps
                     flags: readable, writable
                     Integer. Range: 1000 - 20000 Default: 2000

  crf   : Constant Rate Factor for quality-based encoding (0 = auto, 10-49 range)
                     flags: readable, writable
                     Integer. Range: 10 - 49 Default: 12

  hash   : Embed picture signature (HASH) for conformance checking in decoding (0 = auto)
                     flags: readable, writable
                     Integer. Range: 0 - 1 Default: 0

  info-sei   : Embed SEI messages identifying encoder parameters (0 = no, 1 = yes)
                     flags: readable, writable
                     Integer. Range: 0 - 1 Default: 1

  keyint-max   : Maximum interval between I-frames (default 30)
                     flags: readable, writable
                     Integer. Range: 1 - 300 Default: 5

  min-force-key-unit-interval: Minimum interval between force-keyunit requests in nanoseconds
                     flags: readable, writable
                     Unsigned Integer64. Range: 0 - 18446744073709551615 Default: 0

  name   : The name of the object
                     flags: readable, writable
                     String. Default: "xeveenc0"

  parent   : The parent of the object
                     flags: readable, writable
                     Object of type "GstObject"

  preset   : XEVE preset to use (0 = Default, 1 = Fast, 2 = medium 3 = slow 4 = placebo)
                     flags: readable, writable
                     Integer. Range: 0 - 4 Default: 0

  profile   : XEVE profile to use (0 = Baseline, 1 = Main)
                     flags: readable, writable
                     Integer. Range: 0 - 1 Default: 0

  qos   : Handle Quality-of-Service events from downstream
                     flags: readable, writable

Boolean. Default: false

qp   : Quantization Parameter (0 = auto)
                   flags: readable, writable
                   Integer. Range: 1 - 51 Default: 22

rc-mode   : Rate Control Mode (0 = CQP, 1 = ABR, 2 = CRF)
                   flags: readable, writable
                   Enum "GstXeveEncRCMode" Default: 0, "cqp"
          (0): cqp   - Constant QP
          (1): abr   - Average Bitrate
          (2): crf   - Constant Rate Factor