



# Open Source Used In Cisco Jabber Guest SDK For iOS 12.2.2

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## Contents

### **1.1 glib 2.27.1**

1.1.1 Available under license

### **1.2 libsrtplib 2.2.0**

1.2.1 Available under license

### **1.3 jansson 2.7**

1.3.1 Available under license

### **1.4 speexdsp 1.1**

1.4.1 Available under license

### **1.5 opus 1.0**

1.5.1 Available under license

### **1.6 libxml2 2.9.9**

1.6.1 Available under license

### **1.7 boost 1.65.1**

### **1.8 sskeychain 0.1.4**

1.8.1 Available under license

### **1.9 udt 1.0.3**

### **1.10 expat 2.2.0**

1.10.1 Available under license

### **1.11 gstreamer 0.10.35.1**

1.11.1 Available under license

### **1.12 curl 7.65.0**

### **1.13 pcre 8.43**

1.13.1 Available under license

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## 1.9 udt 1.0.3

## 1.10 expat 2.2.0

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# 1.11 gstreamer 0.10.35.1

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<signature of Ty Coon>, 1 April 1990

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That's all there is to it!

```
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```

```
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*
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```

```
*/
```

```
/* GStreamer
```

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```

```
*      2000 Wim Taymans <wim.taymans@chello.be>
```

```
*
```

```
* gstpadtemplate.h: Header for GstPadTemplate object
```

```
*
```

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\*/

#ifndef \_\_GST\_PAD\_TEMPLATE\_H\_\_

#define \_\_GST\_PAD\_TEMPLATE\_H\_\_

#include <gst/gstconfig.h>

#include <gst/gstobject.h>

#include <gst/gstbuffer.h>

#include <gst/gstcaps.h>

#include <gst/gstevent.h>

#include <gst/gstquery.h>

#include <gst/gsttask.h>

G\_BEGIN\_DECLS

/\* FIXME: this awful circular dependency need to be resolved properly (see pad.h) \*/

/\*typedef struct \_GstPadTemplate GstPadTemplate; \*/

typedef struct \_GstPadTemplateClass GstPadTemplateClass;

typedef struct \_GstStaticPadTemplate GstStaticPadTemplate;

#define GST\_TYPE\_STATIC\_PAD\_TEMPLATE (gst\_static\_pad\_template\_get\_type ())

#define GST\_TYPE\_PAD\_TEMPLATE (gst\_pad\_template\_get\_type ())

#define GST\_PAD\_TEMPLATE(obj) (G\_TYPE\_CHECK\_INSTANCE\_CAST ((obj),  
GST\_TYPE\_PAD\_TEMPLATE,GstPadTemplate))

#define GST\_PAD\_TEMPLATE\_CLASS(klass) (G\_TYPE\_CHECK\_CLASS\_CAST ((klass),  
GST\_TYPE\_PAD\_TEMPLATE,GstPadTemplateClass))

#define GST\_IS\_PAD\_TEMPLATE(obj) (G\_TYPE\_CHECK\_INSTANCE\_TYPE ((obj),  
GST\_TYPE\_PAD\_TEMPLATE))

#define GST\_IS\_PAD\_TEMPLATE\_CLASS(klass) (G\_TYPE\_CHECK\_CLASS\_TYPE ((klass),  
GST\_TYPE\_PAD\_TEMPLATE))

/\*\*

\* GstPadPresence:

\* @GST\_PAD\_ALWAYS: the pad is always available

\* @GST\_PAD\_SOMETIMES: the pad will become available depending on the media stream

\* @GST\_PAD\_REQUEST: the pad is only available on request with

\* gst\_element\_get\_request\_pad().

\*

\* Indicates when this pad will become available.

\*/

typedef enum {

GST\_PAD\_ALWAYS,

GST\_PAD\_SOMETIMES,

GST\_PAD\_REQUEST

```

} GstPadPresence;

/**
 * GST_PAD_TEMPLATE_NAME_TEMPLATE:
 * @templ: the template to query
 *
 * Get the nametemplate of the padtemplate.
 */
#define GST_PAD_TEMPLATE_NAME_TEMPLATE(templ) (((GstPadTemplate *) (templ))->name_template)

/**
 * GST_PAD_TEMPLATE_DIRECTION:
 * @templ: the template to query
 *
 * Get the #GstPadDirection of the padtemplate.
 */
#define GST_PAD_TEMPLATE_DIRECTION(templ) (((GstPadTemplate *) (templ))->direction)

/**
 * GST_PAD_TEMPLATE_PRESENCE:
 * @templ: the template to query
 *
 * Get the #GstPadPresence of the padtemplate.
 */
#define GST_PAD_TEMPLATE_PRESENCE(templ) (((GstPadTemplate *) (templ))->presence)

/**
 * GST_PAD_TEMPLATE_CAPS:
 * @templ: the template to query
 *
 * Get a handle to the padtemplate #GstCaps
 */
#define GST_PAD_TEMPLATE_CAPS(templ) (((GstPadTemplate *) (templ))->caps)

/**
 * GstPadTemplateFlags:
 * @GST_PAD_TEMPLATE_FIXED: the padtemplate has no variable properties
 * @GST_PAD_TEMPLATE_FLAG_LAST: first flag that can be used by subclasses.
 *
 * Flags for the padtemplate
 */
typedef enum {
    /* FIXME0.11: this is not used and the purpose is unclear */
    GST_PAD_TEMPLATE_FIXED    = (GST_OBJECT_FLAG_LAST << 0),
    /* padding */
    GST_PAD_TEMPLATE_FLAG_LAST = (GST_OBJECT_FLAG_LAST << 4)
} GstPadTemplateFlags;

```

```

/**
 * GST_PAD_TEMPLATE_IS_FIXED:
 * @templ: the template to query
 *
 * Check if the properties of the padtemplate are fixed
 */
#define GST_PAD_TEMPLATE_IS_FIXED(templ) (GST_OBJECT_FLAG_IS_SET(templ,
GST_PAD_TEMPLATE_FIXED))

/**
 * GstPadTemplate:
 *
 * The padtemplate object.
 */
struct _GstPadTemplate {
    GObject    object;

    gchar      *name_template;
    GstPadDirection direction;
    GstPadPresence presence;
    GstCaps    *caps;

    gpointer _gst_reserved[GST_PADDING];
};

struct _GstPadTemplateClass {
    GObjectClass parent_class;

    /* signal callbacks */
    void (*pad_created) (GstPadTemplate *templ, GstPad *pad);

    gpointer _gst_reserved[GST_PADDING];
};

/**
 * GstStaticPadTemplate:
 * @name_template: the name of the template
 * @direction: the direction of the template
 * @presence: the presence of the template
 * @static_caps: the caps of the template.
 *
 * Structure describing the #GstStaticPadTemplate.
 */
struct _GstStaticPadTemplate {
    const gchar *name_template;
    GstPadDirection direction;
    GstPadPresence presence;
    GstStaticCaps static_caps;

```



```

};

/**
 * GST_STATIC_PAD_TEMPLATE:
 * @padname: the name template of the pad
 * @dir: the GstPadDirection of the pad
 * @pres: the GstPadPresence of the pad
 * @caps: the GstStaticCaps of the pad
 *
 * Convenience macro to fill the values of a GstStaticPadTemplate
 * structure.
 */
#define GST_STATIC_PAD_TEMPLATE(padname, dir, pres, caps) \
{ \
  /* name_template */ padname, \
  /* direction */ dir, \
  /* presence */ pres, \
  /* caps */ caps \
}

/* templates and factories */
GType gst_pad_template_get_type (void);
GType gst_static_pad_template_get_type (void);

GstPadTemplate* gst_pad_template_new (const gchar *name_template,
    GstPadDirection direction, GstPadPresence presence,
    GstCaps *caps) G_GNUC_MALLOC;

GstPadTemplate * gst_static_pad_template_get (GstStaticPadTemplate *pad_template);
GstCaps* gst_static_pad_template_get_caps (GstStaticPadTemplate *templ);
GstCaps* gst_pad_template_get_caps (GstPadTemplate *templ);

void gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad);

G_END_DECLS

#endif /* __GST_PAD_TEMPLATE_H__ */
/* GStreamer
 * Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
 *      2000 Wim Taymans <wtay@chello.be>
 *      2005 Wim Taymans <wim@fluendo.com>
 *      2005 David Schleef <ds@schleef.org>
 *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Library General Public
 * License as published by the Free Software Foundation; either
 * version 2 of the License, or (at your option) any later version.
 *

```

```

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* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
/**
* SECTION:element-capsfilter
*
* The element does not modify data as such, but can enforce limitations on the
* data format.
*
* <refsect2>
* <title>Example launch line</title>
* [[
* gst-launch videotestsrc ! video/x-raw-gray ! ffmpegcolorspace ! autovideosink
* ]] Limits acceptable video from videotestsrc to be grayscale.
* </refsect2>
*/

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include "../gst/gst-i18n-lib.h"
#include "gstcapsfilter.h"

enum
{
    PROP_0,
    PROP_FILTER_CAPS
};

static GstStaticPadTemplate sinktemplate = GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS_ANY);

static GstStaticPadTemplate srctemplate = GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS_ANY);

```

```

GST_DEBUG_CATEGORY_STATIC (gst_capsfilter_debug);
#define GST_CAT_DEFAULT gst_capsfilter_debug

#define _do_init(bla) \
    GST_DEBUG_CATEGORY_INIT (gst_capsfilter_debug, "capsfilter", 0, \
    "capsfilter element");

GST_BOILERPLATE_FULL (GstCapsFilter, gst_capsfilter, GstBaseTransform,
    GST_TYPE_BASE_TRANSFORM, _do_init);

static void gst_capsfilter_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_capsfilter_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);
static void gst_capsfilter_dispose (GObject * object);

static GstCaps *gst_capsfilter_transform_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps);
static gboolean gst_capsfilter_accept_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_capsfilter_transform_ip (GstBaseTransform * base,
    GstBuffer * buf);
static GstFlowReturn gst_capsfilter_prepare_buf (GstBaseTransform * trans,
    GstBuffer * input, gint size, GstCaps * caps, GstBuffer ** buf);

static void
gst_capsfilter_base_init (gpointer g_class)
{
    GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);

    gst_element_class_set_details_simple (gstelement_class,
        "CapsFilter",
        "Generic",
        "Pass data without modification, limiting formats",
        "David Schleef <ds@schleef.org>");
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&srctemplate));
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&sinktemplate));
}

static void
gst_capsfilter_class_init (GstCapsFilterClass * klass)
{
    GObjectClass *gobject_class;
    GstBaseTransformClass *trans_class;

```

```

gobject_class = G_OBJECT_CLASS (klass);
gobject_class->set_property = gst_capsfilter_set_property;
gobject_class->get_property = gst_capsfilter_get_property;
gobject_class->dispose = gst_capsfilter_dispose;

g_object_class_install_property (gobject_class, PROP_FILTER_CAPS,
    g_param_spec_boxed ("caps", _("Filter caps"),
        _("Restrict the possible allowed capabilities (NULL means ANY). "
            "Setting this property takes a reference to the supplied GstCaps "
            "object."), GST_TYPE_CAPS,
        G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));

trans_class = GST_BASE_TRANSFORM_CLASS (klass);
trans_class->transform_caps =
    GST_DEBUG_FUNCPTR (gst_capsfilter_transform_caps);
trans_class->transform_ip = GST_DEBUG_FUNCPTR (gst_capsfilter_transform_ip);
trans_class->accept_caps = GST_DEBUG_FUNCPTR (gst_capsfilter_accept_caps);
trans_class->prepare_output_buffer =
    GST_DEBUG_FUNCPTR (gst_capsfilter_prepare_buf);
}

static void
gst_capsfilter_init (GstCapsFilter * filter, GstCapsFilterClass * g_class)
{
    GstBaseTransform *trans = GST_BASE_TRANSFORM (filter);
    gst_base_transform_set_gap_aware (trans, TRUE);
    filter->filter_caps = gst_caps_new_any ();
}

static gboolean
copy_func (GQuark field_id, const GValue * value, GstStructure * dest)
{
    gst_structure_id_set_value (dest, field_id, value);

    return TRUE;
}

static void
gst_capsfilter_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (object);

    switch (prop_id) {
        case PROP_FILTER_CAPS: {
            GstCaps *new_caps;
            GstCaps *old_caps, *suggest, *nego;

```

```

const GstCaps *new_caps_val = gst_value_get_caps (value);

if (new_caps_val == NULL) {
    new_caps = gst_caps_new_any ();
} else {
    new_caps = (GstCaps *) new_caps_val;
    gst_caps_ref (new_caps);
}

GST_OBJECT_LOCK (capsfilter);
old_caps = capsfilter->filter_caps;
capsfilter->filter_caps = new_caps;
GST_OBJECT_UNLOCK (capsfilter);

gst_caps_unref (old_caps);

GST_DEBUG_OBJECT (capsfilter, "set new caps %" GST_PTR_FORMAT, new_caps);

/* filter the currently negotiated format against the new caps */
GST_OBJECT_LOCK (GST_BASE_TRANSFORM_SINK_PAD (object));
nego = GST_PAD_CAPS (GST_BASE_TRANSFORM_SINK_PAD (object));
if (nego) {
    GST_DEBUG_OBJECT (capsfilter, "we had negotiated caps %" GST_PTR_FORMAT,
        nego);

    if (G_UNLIKELY (gst_caps_is_any (new_caps))) {
        GST_DEBUG_OBJECT (capsfilter, "not settings any suggestion");

        suggest = NULL;
    } else {
        GstStructure *s1, *s2;

        /* first check if the name is the same */
        s1 = gst_caps_get_structure (nego, 0);
        s2 = gst_caps_get_structure (new_caps, 0);

        if (gst_structure_get_name_id (s1) == gst_structure_get_name_id (s2)) {
            /* same name, copy all fields from the new caps into the previously
             * negotiated caps */
            suggest = gst_caps_copy (nego);
            s1 = gst_caps_get_structure (suggest, 0);
            gst_structure_foreach (s2, (GstStructureForeachFunc) copy_func, s1);
            GST_DEBUG_OBJECT (capsfilter, "copied structure fields");
        } else {
            GST_DEBUG_OBJECT (capsfilter, "different structure names");
            /* different names, we can only suggest the complete caps */
            suggest = gst_caps_copy (new_caps);
        }
    }
}

```

```

    }
} else {
    GST_DEBUG_OBJECT (capsfilter, "no negotiated caps");
    /* Suggest the new caps, we can't just rely on _get_caps as this may
     * already be called at this point even though no buffer has been
     * pushed yet */
    suggest = gst_caps_copy (new_caps);
}
GST_OBJECT_UNLOCK (GST_BASE_TRANSFORM_SINK_PAD (object));

GST_DEBUG_OBJECT (capsfilter, "suggesting new caps %" GST_PTR_FORMAT,
    suggest);
gst_base_transform_suggest (GST_BASE_TRANSFORM (object), suggest, 0);
if (suggest)
    gst_caps_unref (suggest);

break;
}
default:
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
break;
}
}

static void
gst_capsfilter_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (object);

    switch (prop_id) {
        case PROP_FILTER_CAPS:
            GST_OBJECT_LOCK (capsfilter);
            gst_value_set_caps (value, capsfilter->filter_caps);
            GST_OBJECT_UNLOCK (capsfilter);
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

static void
gst_capsfilter_dispose (GObject * object)
{
    GstCapsFilter *filter = GST_CAPSFILTER (object);

    gst_caps_replace (&filter->filter_caps, NULL);
}

```

```

G_OBJECT_CLASS (parent_class)->dispose (object);
}

static GstCaps *
gst_capsfilter_transform_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
    GstCaps *ret, *filter_caps;

    GST_OBJECT_LOCK (capsfilter);
    filter_caps = gst_caps_ref (capsfilter->filter_caps);
    GST_OBJECT_UNLOCK (capsfilter);

    ret = gst_caps_intersect (caps, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "input: %" GST_PTR_FORMAT, caps);
    GST_DEBUG_OBJECT (capsfilter, "filter: %" GST_PTR_FORMAT, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "intersect: %" GST_PTR_FORMAT, ret);

    gst_caps_unref (filter_caps);

    return ret;
}

static gboolean
gst_capsfilter_accept_caps (GstBaseTransform * base,
    GstPadDirection direction, GstCaps * caps)
{
    GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
    GstCaps *filter_caps;
    gboolean ret;

    GST_OBJECT_LOCK (capsfilter);
    filter_caps = gst_caps_ref (capsfilter->filter_caps);
    GST_OBJECT_UNLOCK (capsfilter);

    ret = gst_caps_can_intersect (caps, filter_caps);
    GST_DEBUG_OBJECT (capsfilter, "can intersect: %d", ret);
    if (ret) {
        /* if we can intersect, see if the other end also accepts */
        if (direction == GST_PAD_SRC)
            ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SINK_PAD (base), caps);
        else
            ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SRC_PAD (base), caps);
        GST_DEBUG_OBJECT (capsfilter, "peer accept: %d", ret);
    }
}

```

```

gst_caps_unref (filter_caps);

return ret;
}

static GstFlowReturn
gst_capsfilter_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
/* No actual work here. It's all done in the prepare output buffer
 * func. */
return GST_FLOW_OK;
}

/* Output buffer preparation... if the buffer has no caps, and
 * our allowed output caps is fixed, then give the caps to the
 * buffer.
 * This ensures that outgoing buffers have caps if we can, so
 * that pipelines like:
 * gst-launch filesrc location=rawsamples.raw !
 *   audio/x-raw-int,width=16,depth=16,rate=48000,channels=2,
 *   endianness=4321,signed=(boolean)true ! alsasink
 * will work.
 */
static GstFlowReturn
gst_capsfilter_prepare_buf (GstBaseTransform * trans, GstBuffer * input,
    gint size, GstCaps * caps, GstBuffer ** buf)
{
GstFlowReturn ret = GST_FLOW_OK;

if (GST_BUFFER_CAPS (input) != NULL) {
/* Output buffer already has caps */
GST_LOG_OBJECT (trans, "Input buffer already has caps (implicitly fixed)");
/* FIXME : Move this behaviour to basetransform. The given caps are the ones
 * of the source pad, therefore our outgoing buffers should always have
 * those caps. */
if (GST_BUFFER_CAPS (input) != caps) {
/* caps are different, make a metadata writable output buffer to set
 * caps */
if (gst_buffer_is_metadata_writable (input)) {
/* input is writable, just set caps and use this as the output */
*buf = input;
gst_buffer_set_caps (*buf, caps);
gst_buffer_ref (input);
} else {
GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
*buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
gst_buffer_set_caps (*buf, caps);
}
}
}
}

```



```

} else {
    /* caps are right, just use a ref of the input as the outbuf */
    *buf = input;
    gst_buffer_ref (input);
}
} else {
    /* Buffer has no caps. See if the output pad only supports fixed caps */
    GstCaps *out_caps;

    out_caps = GST_PAD_CAPS (trans->srcpad);

    if (out_caps != NULL) {
        gst_caps_ref (out_caps);
    } else {
        out_caps = gst_pad_get_allowed_caps (trans->srcpad);
        g_return_val_if_fail (out_caps != NULL, GST_FLOW_ERROR);
    }

    out_caps = gst_caps_make_writable (out_caps);
    gst_caps_do_simplify (out_caps);

    if (gst_caps_is_fixed (out_caps) && !gst_caps_is_empty (out_caps)) {
        GST_DEBUG_OBJECT (trans, "Have fixed output caps %"
            GST_PTR_FORMAT " to apply to buffer with no caps", out_caps);
        if (gst_buffer_is_metadata_writable (input)) {
            gst_buffer_ref (input);
            *buf = input;
        } else {
            GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
            *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
        }
        GST_BUFFER_CAPS (*buf) = out_caps;

        if (GST_PAD_CAPS (trans->srcpad) == NULL)
            gst_pad_set_caps (trans->srcpad, out_caps);
    } else {
        gchar *caps_str = gst_caps_to_string (out_caps);

        GST_DEBUG_OBJECT (trans, "Cannot choose caps. Have unfixed output caps %"
            GST_PTR_FORMAT, out_caps);
        gst_caps_unref (out_caps);

        ret = GST_FLOW_ERROR;
        GST_ELEMENT_ERROR (trans, STREAM, FORMAT,
            ("Filter caps do not completely specify the output format"),
            ("Output caps are unfixed: %s", caps_str));
        g_free (caps_str);
    }
}

```

}

return ret;

}

<sect1 id="chapter-legal">

<title id="title-legal">GStreamer Legal Issues</title>

<para>

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the <ulink url="http://www.fsf.org/">

FSF lawyers</ulink>, so we view them as the

final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by

<ulink url="http://www.fluendo.com/">Fluendo</ulink>

in order to obtain clear and quotable answers. These answers were certified

by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

</para>

<qandaset defaultlabel="qanda">

<qandaentry>

<question id="legal-distribute-three">

<para>

Can someone distribute the combination of

<itemizedlist>

<listitem><para>GStreamer, the LGPL library</para></listitem>

<listitem><para>MyPlayer, a GPL playback application</para></listitem>

<listitem><para>The binary-only Sorenson decoder</para></listitem>

</itemizedlist>

together in one distribution/operating system ? If not, what needs to be changed to make this possible ?

</para>

</question>

<answer>

<para>

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

</para>

<para>

If the authors of MyPlayer want to permit this, we have an

exception for them: the controlled interface exception from the FAQ.

The idea of this is that you can't get around the GPL just by including

a LGPL bit in the middle.

</para>

<para>

Note: MyPlayer is a completely fictitious application at the time of writing.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-binary-plugin">

<para>

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above.

Can Apple distribute this binary-only plugin ?

</para>

</question>

<answer>

<para>

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-program">

<para>

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in ?

</para>

</question>

<answer>

<para>

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-safe-countries">

<para>

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway ? If he/she visits the US, can he/she be arrested ?

</para>

</question>

<answer>

<para>

Yes, he can.

No, there are no criminal penalties for patent infringement in the US.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-unsafe-countries">

<para>

Can someone from the US distribute software covered by US patents under the GPL to people in Norway ? To people in the US ?

</para>

</question>

<answer>

<para>

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement.

The US government is empowered to refuse importation of patent infringing devices, including software.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-library-patents">

<para>

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project ?

</para>

</question>

<answer>

<para>

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement

prevents you from distributing libmad under GPL terms, you can not distribute it at all.

</para>

<para>

The GPL and LGPL say (sections 7 and 11):

<quote>If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.</quote>

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-court-judgment">

<para>

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents ?

</para>

</question>

<answer>

<para>

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-and-binary">

<para>

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library.

Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>

</question>

<answer>

<para>

No.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-patent-distribution">

<para>

Is it correct that you cannot distribute the GPL mad library to decode mp3's, \*even\* in the case where you have obtained a valid license for decoding mp3 ?

</para>

</question>

<answer>

<para>

The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.

</para>

<para>

If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.

</para>

</answer>

</qandaentry>

</qandaset>

</sect1>

/\* GStreamer

\* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>

\* 2000 Wim Taymans <wtay@chello.be>

\*

\* gstpadtemplate.c: Templates for pad creation

\*

\* This library is free software; you can redistribute it and/or

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\* version 2 of the License, or (at your option) any later version.

\*

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\*

\* You should have received a copy of the GNU Library General Public

\* License along with this library; if not, write to the

\* Free Software Foundation, Inc., 59 Temple Place - Suite 330,

\* Boston, MA 02111-1307, USA.

\*/

```

/**
 * SECTION:gstpadtemplate
 * @short_description: Describe the media type of a pad.
 * @see_also: #GstPad, #GstElementFactory
 *
 * Padtemplates describe the possible media types a pad or an elementfactory can
 * handle. This allows for both inspection of handled types before loading the
 * element plugin as well as identifying pads on elements that are not yet
 * created (request or sometimes pads).
 *
 * Pad and PadTemplates have #GstCaps attached to it to describe the media type
 * they are capable of dealing with. gst_pad_template_get_caps() or
 * GST_PAD_TEMPLATE_CAPS() are used to get the caps of a padtemplate. It's not
 * possible to modify the caps of a padtemplate after creation.
 *
 * PadTemplates have a #GstPadPresence property which identifies the lifetime
 * of the pad and that can be retrieved with GST_PAD_TEMPLATE_PRESENCE(). Also
 * the direction of the pad can be retrieved from the #GstPadTemplate with
 * GST_PAD_TEMPLATE_DIRECTION().
 *
 * The GST_PAD_TEMPLATE_NAME_TEMPLATE () is important for GST_PAD_REQUEST pads
 * because it has to be used as the name in the gst_element_get_request_pad()
 * call to instantiate a pad from this template.
 *
 * Padtemplates can be created with gst_pad_template_new() or with
 * gst_static_pad_template_get (), which creates a #GstPadTemplate from a
 * #GstStaticPadTemplate that can be filled with the
 * convenient GST_STATIC_PAD_TEMPLATE() macro.
 *
 * A padtemplate can be used to create a pad (see gst_pad_new_from_template()
 * or gst_pad_new_from_static_template ()) or to add to an element class
 * (see gst_element_class_add_pad_template ()).
 *
 * The following code example shows the code to create a pad from a padtemplate.
 * <example>
 * <title>Create a pad from a padtemplate</title>
 * <programlisting>
 * GstStaticPadTemplate my_template =
 * GST_STATIC_PAD_TEMPLATE (
 * "sink", // the name of the pad
 * GST_PAD_SINK, // the direction of the pad
 * GST_PAD_ALWAYS, // when this pad will be present
 * GST_STATIC_CAPS ( // the capabilities of the padtemplate
 * "audio/x-raw-int, "
 * "channels = (int) [ 1, 6 ]"
 * )
 * );

```

```

* void
* my_method (void)
* {
*   GstPad *pad;
*   pad = gst_pad_new_from_static_template (&my_template, "sink");
*   ...
* }
* </programlisting>
* </example>
*
* The following example shows you how to add the padtemplate to an
* element class, this is usually done in the base_init of the class:
* <informalexample>
* <programlisting>
* static void
* my_element_base_init (gpointer g_class)
* {
*   GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
*
*   gst_element_class_add_pad_template (gstelement_class,
*   gst_static_pad_template_get (&my_template));
* }
* </programlisting>
* </informalexample>
*
* Last reviewed on 2006-02-14 (0.10.3)
*/

```

```
#include "gst_private.h"
```

```
#include "gstpad.h"
#include "gstpadtemplate.h"
#include "gstenumtypes.h"
#include "gstmarshal.h"
#include "gstutils.h"
#include "gstinfo.h"
#include "gsterror.h"
#include "gstvalue.h"
```

```
#define GST_CAT_DEFAULT GST_CAT_PADS
```

```
enum
{
  PROP_NAME_TEMPLATE = 1,
  PROP_DIRECTION,
  PROP_PRESENCE,
  PROP_CAPS
};
```



```

enum
{
    TEMPL_PAD_CREATED,
    /* FILL ME */
    LAST_SIGNAL
};

static GObject *parent_class = NULL;
static guint gst_pad_template_signals[LAST_SIGNAL] = { 0 };

static void gst_pad_template_dispose (GObject * object);
static void gst_pad_template_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec);
static void gst_pad_template_get_property (GObject * object, guint prop_id,
    GValue * value, GParamSpec * pspec);

G_DEFINE_TYPE (GstPadTemplate, gst_pad_template, GST_TYPE_OBJECT);

static void
gst_pad_template_class_init (GstPadTemplateClass * klass)
{
    GObjectClass *gobject_class;
    GstObjectClass *gstobject_class;

    gobject_class = (GObjectClass *) klass;
    gstobject_class = (GstObjectClass *) klass;

    parent_class = g_type_class_peek_parent (klass);

    /**
     * GstPadTemplate::pad-created:
     * @pad_template: the object which received the signal.
     * @pad: the pad that was created.
     *
     * This signal is fired when an element creates a pad from this template.
     */
    gst_pad_template_signals[TEMPL_PAD_CREATED] =
        g_signal_new ("pad-created", G_TYPE_FROM_CLASS (klass), G_SIGNAL_RUN_LAST,
            G_STRUCT_OFFSET (GstPadTemplateClass, pad_created),
            NULL, NULL, gst_marshal_VOID__OBJECT, G_TYPE_NONE, 1, GST_TYPE_PAD);

    gobject_class->dispose = gst_pad_template_dispose;

    gobject_class->get_property = gst_pad_template_get_property;
    gobject_class->set_property = gst_pad_template_set_property;

    /**

```

```

* GstPadTemplate:name-template
*
* The name template of the pad template.
*
* Since: 0.10.21
*/
g_object_class_install_property (gobject_class, PROP_NAME_TEMPLATE,
    g_param_spec_string ("name-template", "Name template",
        "The name template of the pad template", NULL,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
* GstPadTemplate:direction
*
* The direction of the pad described by the pad template.
*
* Since: 0.10.21
*/
g_object_class_install_property (gobject_class, PROP_DIRECTION,
    g_param_spec_enum ("direction", "Direction",
        "The direction of the pad described by the pad template",
        GST_TYPE_PAD_DIRECTION, GST_PAD_UNKNOWN,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
* GstPadTemplate:presence
*
* When the pad described by the pad template will become available.
*
* Since: 0.10.21
*/
g_object_class_install_property (gobject_class, PROP_PRESENCE,
    g_param_spec_enum ("presence", "Presence",
        "When the pad described by the pad template will become available",
        GST_TYPE_PAD_PRESENCE, GST_PAD_ALWAYS,
        G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));

/**
* GstPadTemplate:caps
*
* The capabilities of the pad described by the pad template.
*
* Since: 0.10.21
*/
g_object_class_install_property (gobject_class, PROP_CAPS,
    g_param_spec_boxed ("caps", "Caps",
        "The capabilities of the pad described by the pad template",
        GST_TYPE_CAPS,

```

```
G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));
```

```
gstobject_class->path_string_separator = "*";  
}
```

```
static void
```

```
gst_pad_template_init (GstPadTemplate * templ)
```

```
{
```

```
/* FIXME 0.11: Does anybody remember why this is here? If not, let's  
* change it for 0.11 and let gst_element_class_add_pad_template() for  
* example ref/sink the pad templates.  
*/
```

```
*/
```

```
/* We ensure that the pad template we're creating has a sunken reference.
```

```
* Inconsistencies in pad templates being floating or sunken has caused
```

```
* problems in the past with leaks, etc.
```

```
*/
```

```
* For consistency, then, we only produce them with sunken references
```

```
* owned by the creator of the object
```

```
*/
```

```
if (GST_OBJECT_IS_FLOATING (templ)) {
```

```
    gst_object_ref_sink (templ);
```

```
}
```

```
}
```

```
static void
```

```
gst_pad_template_dispose (GObject * object)
```

```
{
```

```
    GstPadTemplate *templ = GST_PAD_TEMPLATE (object);
```

```
    g_free (GST_PAD_TEMPLATE_NAME_TEMPLATE (templ));
```

```
    if (GST_PAD_TEMPLATE_CAPS (templ)) {
```

```
        gst_caps_unref (GST_PAD_TEMPLATE_CAPS (templ));
```

```
    }
```

```
G_OBJECT_CLASS (parent_class)->dispose (object);
```

```
}
```

```
/* ALWAYS padtemplates cannot have conversion specifications (like src_%d),
```

```
* since it doesn't make sense.
```

```
* SOMETIMES padtemplates can do whatever they want, they are provided by the
```

```
* element.
```

```
* REQUEST padtemplates can be reverse-parsed (the user asks for 'sink1', the
```

```
* 'sink%d' template is automatically selected), so we need to restrict their
```

```
* naming.
```

```
*/
```

```
static gboolean
```

```
name_is_valid (const gchar * name, GstPadPresence presence)
```

```
{
```

```

const gchar *str;

if (presence == GST_PAD_ALWAYS) {
    if (strchr (name, '%') {
        g_warning ("invalid name template %s: conversion specifications are not"
            " allowed for GST_PAD_ALWAYS padtemplates", name);
        return FALSE;
    }
} else if (presence == GST_PAD_REQUEST) {
    if ((str = strchr (name, '%')) && strchr (str + 1, '%')) {
        g_warning ("invalid name template %s: only one conversion specification"
            " allowed in GST_PAD_REQUEST padtemplate", name);
        return FALSE;
    }
    if (str && (*(str + 1) != 's' && *(str + 1) != 'd' && *(str + 1) != 'u')) {
        g_warning ("invalid name template %s: conversion specification must be of"
            " type '%d', '%u' or '%s' for GST_PAD_REQUEST padtemplate", name);
        return FALSE;
    }
    if (str && *(str + 2) != '\0') {
        g_warning ("invalid name template %s: conversion specification must"
            " appear at the end of the GST_PAD_REQUEST padtemplate name", name);
        return FALSE;
    }
}

return TRUE;
}

GType
gst_static_pad_template_get_type (void)
{
    static GType staticpadtemplate_type = 0;

    if (G_UNLIKELY (staticpadtemplate_type == 0)) {
        staticpadtemplate_type =
            g_pointer_type_register_static ("GstStaticPadTemplate");
    }
    return staticpadtemplate_type;
}

/**
 * gst_static_pad_template_get:
 * @pad_template: the static pad template
 *
 * Converts a #GstStaticPadTemplate into a #GstPadTemplate.
 *
 * Returns: (transfer full): a new #GstPadTemplate.

```

```

*/
/* FIXME0.11: rename to gst_pad_template_new_from_static_pad_template() */
GstPadTemplate *
gst_static_pad_template_get (GstStaticPadTemplate * pad_template)
{
    GstPadTemplate *new;
    GstCaps *caps;

    if (!name_is_valid (pad_template->name_template, pad_template->presence))
        return NULL;

    caps = gst_static_caps_get (&pad_template->static_caps);

    new = g_object_new (gst_pad_template_get_type (),
        "name", pad_template->name_template,
        "name-template", pad_template->name_template,
        "direction", pad_template->direction,
        "presence", pad_template->presence, "caps", caps, NULL);

    gst_caps_unref (caps);

    return new;
}

/**
 * gst_pad_template_new:
 * @name_template: the name template.
 * @direction: the #GstPadDirection of the template.
 * @presence: the #GstPadPresence of the pad.
 * @caps: (transfer full): a #GstCaps set for the template. The caps are
 *   taken ownership of.
 *
 * Creates a new pad template with a name according to the given template
 * and with the given arguments. This functions takes ownership of the provided
 * caps, so be sure to not use them afterwards.
 *
 * Returns: (transfer full): a new #GstPadTemplate.
 */
GstPadTemplate *
gst_pad_template_new (const gchar * name_template,
    GstPadDirection direction, GstPadPresence presence, GstCaps * caps)
{
    GstPadTemplate *new;

    g_return_val_if_fail (name_template != NULL, NULL);
    g_return_val_if_fail (caps != NULL, NULL);
    g_return_val_if_fail (direction == GST_PAD_SRC
        || direction == GST_PAD_SINK, NULL);

```

```

g_return_val_if_fail (presence == GST_PAD_ALWAYS
    || presence == GST_PAD_SOMETIMES || presence == GST_PAD_REQUEST, NULL);

if (!name_is_valid (name_template, presence)) {
    gst_caps_unref (caps);
    return NULL;
}

new = g_object_new (gst_pad_template_get_type (),
    "name", name_template, "name-template", name_template,
    "direction", direction, "presence", presence, "caps", caps, NULL);

gst_caps_unref (caps);

return new;
}

/**
 * gst_static_pad_template_get_caps:
 * @templ: a #GstStaticPadTemplate to get capabilities of.
 *
 * Gets the capabilities of the static pad template.
 *
 * Returns: (transfer full): the #GstCaps of the static pad template.
 * Unref after usage. Since the core holds an additional
 * ref to the returned caps, use gst_caps_make_writable()
 * on the returned caps to modify it.
 */
GstCaps *
gst_static_pad_template_get_caps (GstStaticPadTemplate * templ)
{
    g_return_val_if_fail (templ, NULL);

    return (GstCaps *) gst_static_caps_get (&templ->static_caps);
}

/**
 * gst_pad_template_get_caps:
 * @templ: a #GstPadTemplate to get capabilities of.
 *
 * Gets the capabilities of the pad template.
 *
 * Returns: (transfer none): the #GstCaps of the pad template. If you need to
 * keep a reference to the caps, take a ref (see gst_caps_ref ()).
 */
GstCaps *
gst_pad_template_get_caps (GstPadTemplate * templ)
{

```

```

g_return_val_if_fail (GST_IS_PAD_TEMPLATE (templ), NULL);

return GST_PAD_TEMPLATE_CAPS (templ);
}

/**
 * gst_pad_template_pad_created:
 * @templ: a #GstPadTemplate that has been created
 * @pad: the #GstPad that created it
 *
 * Emit the pad-created signal for this template when created by this pad.
 */
void
gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad)
{
    g_signal_emit (templ, gst_pad_template_signals[TEMPL_PAD_CREATED], 0, pad);
}

static void
gst_pad_template_set_property (GObject * object, guint prop_id,
    const GValue * value, GParamSpec * pspec)
{
    /* these properties are all construct-only */
    switch (prop_id) {
        case PROP_NAME_TEMPLATE:
            GST_PAD_TEMPLATE_NAME_TEMPLATE (object) = g_value_dup_string (value);
            break;
        case PROP_DIRECTION:
            GST_PAD_TEMPLATE_DIRECTION (object) =
                (GstPadDirection) g_value_get_enum (value);
            break;
        case PROP_PRESENCE:
            GST_PAD_TEMPLATE_PRESENCE (object) =
                (GstPadPresence) g_value_get_enum (value);
            break;
        case PROP_CAPS:
            /* allow caps == NULL for backwards compatibility (ie. g_object_new()
             * called without any of the new properties) (FIXME 0.11) */
            if (g_value_get_boxed (value) != NULL) {
                GST_PAD_TEMPLATE_CAPS (object) =
                    gst_caps_copy (g_value_get_boxed (value));
            }
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}

```

```

static void
gst_pad_template_get_property (GObject * object, guint prop_id, GValue * value,
    GParamSpec * pspec)
{
    /* these properties are all construct-only */
    switch (prop_id) {
        case PROP_NAME_TEMPLATE:
            g_value_set_string (value, GST_PAD_TEMPLATE_NAME_TEMPLATE (object));
            break;
        case PROP_DIRECTION:
            g_value_set_enum (value, GST_PAD_TEMPLATE_DIRECTION (object));
            break;
        case PROP_PRESENCE:
            g_value_set_enum (value, GST_PAD_TEMPLATE_PRESENCE (object));
            break;
        case PROP_CAPS:
            g_value_set_boxed (value, GST_PAD_TEMPLATE_CAPS (object));
            break;
        default:
            G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
            break;
    }
}
/*
 * Check: a unit test framework for C
 * Copyright (C) 2001,2002 Arien Malec
 *
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 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifdef CHECK_IMPL_H
#define CHECK_IMPL_H

```



```

/* This header should be included by any module that needs
   to know the implementation details of the check structures
   Include stdio.h & list.h before this header
*/

typedef struct TF {
    TFun fn;
    int loop_start;
    int loop_end;
    const char *name;
    int signal;
    unsigned char allowed_exit_value;
} TF;

struct Suite {
    const char *name;
    List *tclst; /* List of test cases */
};

typedef struct Fixture
{
    int ischecked;
    SFun fun;
} Fixture;

struct TCase {
    const char *name;
    int timeout;
    List *tflst; /* list of test functions */
    List *unch_sflst;
    List *unch_tflst;
    List *ch_sflst;
    List *ch_tflst;
};

typedef struct TestStats {
    int n_checked;
    int n_failed;
    int n_errors;
} TestStats;

struct TestResult {
    enum test_result rtype; /* Type of result */
    enum ck_result_ctx ctx; /* When the result occurred */
    char *file; /* File where the test occurred */
    int line; /* Line number where the test occurred */
    int iter; /* The iteration value for looping tests */
    const char *tname; /* Test case that generated the result */
}

```

```

const char *tname; /* Test that generated the result */
char *msg; /* Failure message */
};

TestResult *tr_create(void);
void tr_reset(TestResult *tr);

enum cl_event {
    CLINITLOG_SR,
    CLENDLOG_SR,
    CLSTART_SR,
    CLSTART_S,
    CLEND_SR,
    CLEND_S,
    CLSTART_T, /* A test case is about to run */
    CLEND_T
};

typedef void (*LFun) (SRunner *, FILE*, enum print_output,
    void *, enum cl_event);

typedef struct Log {
    FILE *lfile;
    LFun lfun;
    int close;
    enum print_output mode;
} Log;

struct SRunner {
    List *slst; /* List of Suite objects */
    TestStats *stats; /* Run statistics */
    List *resultlst; /* List of unit test results */
    const char *log_fname; /* name of log file */
    const char *xml_fname; /* name of xml output file */
    List *loglst; /* list of Log objects */
    enum fork_status fstat; /* controls if suites are forked or not
        NOTE: Don't use this value directly,
        instead use srunner_fork_status */
};

void set_fork_status(enum fork_status fstat);
enum fork_status cur_fork_status (void);

#endif /* CHECK_IMPL_H */
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
*      2000 Wim Taymans <wtay@chello.be>

```

```

*
* gstidentity.h:
*
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* version 2 of the License, or (at your option) any later version.
*
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* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

```

```

#ifndef __GST_CAPSFILTER_H__
#define __GST_CAPSFILTER_H__

```

```

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>

```

```

G_BEGIN_DECLS

```

```

#define GST_TYPE_CAPSFILTER \
    (gst_capsfilter_get_type())
#define GST_CAPSFILTER(obj) \
    (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_CAPSFILTER,GstCapsFilter))
#define GST_CAPSFILTER_CLASS(klass) \
    (G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_CAPSFILTER,GstCapsFilterClass))
#define GST_IS_CAPSFILTER(obj) \
    (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_CAPSFILTER))
#define GST_IS_CAPSFILTER_CLASS(klass) \
    (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_CAPSFILTER))

```

```

typedef struct _GstCapsFilter GstCapsFilter;
typedef struct _GstCapsFilterClass GstCapsFilterClass;

```

```

/**
 * GstCapsFilter:
 *
 * The opaque #GstCapsFilter data structure.
 */

```

```

struct _GstCapsFilter {
    GstBaseTransform trans;

    GstCaps *filter_caps;
};

struct _GstCapsFilterClass {
    GstBaseTransformClass trans_class;
};

GType gst_capsfilter_get_type (void);

G_END_DECLS

#endif /* __GST_CAPSFILTER_H__ */

```

## 1.12 curl 7.65.0

## 1.13 pcre 8.43

### 1.13.1 Available under license :

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-----

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just-in-time compiler that can be used to optimize pattern matching. These  
are both optional features that can be omitted when the library is built.

#### THE BASIC LIBRARY FUNCTIONS

-----

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#### PCRE JUST-IN-TIME COMPILATION SUPPORT

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#### STACK-LESS JUST-IN-TIME COMPILER

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Written by: Zoltan Herczeg

Email local part: hzmester

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## THE C++ WRAPPER FUNCTIONS

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