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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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That's all there is to it!

This package was debianized by Ben Gertzfield <che@debian.org>
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1.8 gstreamer 0.10.35.1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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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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., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
<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>
```

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 fictituous application at the time of writing.
    </para>
   </answer>
  </qandaentry>
  <qandaentry>
   <question id="legal-binary-plugin">
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">
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.

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>
```

<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>
```

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

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 posessing 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> Erik Walthinsen <omega@cse.ogi.edu>
* 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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.
```

```
/* 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
* 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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: 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>
* 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");
 }
* 
* </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>
* 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));
 }
* 
* </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 GstObject *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;
}
}
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
            2000 Wim Taymans < wim.taymans@chello.be>
```

```
* gstpadtemplate.h: Header for GstPadTemplate object
* 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.
* This library is distributed in the hope that it will be useful,
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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 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 \quad = (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 {
GstObject object;
gchar
           *name_template;
GstPadDirection direction;
GstPadPresence presence;
GstCaps *caps;
gpointer _gst_reserved[GST_PADDING];
};
struct _GstPadTemplateClass {
GstObjectClass 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);
```

```
G_END_DECLS
#endif /* __GST_PAD_TEMPLATE_H__ */
* Check: a unit test framework for C
* Copyright (C) 2001,2002 Arien Malec
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2.1 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
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* Lesser General Public License for more details.
* You should have received a copy of the GNU Lesser 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.
#ifndef 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 {
```

```
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 */
};
```

TFun fn;

```
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 occured */
int line;
         /* Line number where the test occurred */
int iter; /* The iteration value for looping tests */
const char *tcname; /* 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>
             2005 Wim Taymans <wim@fluendo.com>
             2005 David Schleef <ds@schleef.org>
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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.
*/
/**
```

```
* 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);
  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;
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen < omega@cse.ogi.edu>
            2000 Wim Taymans <wtay@chello.be>
* gstidentity.h:
* This library is free software; you can redistribute it and/or
```

```
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* 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__ */
```

1.9 gstreamer-plugins-bad 0.10.22.1

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

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*/

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GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

```
a52dec
             liba52
                          (http://liba52.sourceforge.net/)
aasink
             aalib
                         (http://sourceforge.net/projects/aa-project/)
cdparanoia
               libcdparanoia (http://www.xiph.org/paranoia/)
dtsdec
            libdts
                         (http://www.videolan.org/dtsdec.html)
dvdnavsrc
               libdvdnav
                              (http://dvd.sourceforge.net/)
dxr3
                       (http://dxr3.sourceforge.net/)
               libshout
icecastsend
                            (http://www.icecast.org)
mad
            libmad
                          (http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec
               libmpeg2
                              (http://libmpeg2.sourceforge.net/)
mpeg2enc
               libmpeg2enc
                                (http://mjpeg.sourceforge.net/)
mplex
             libmplex
                            (http://mjpeg.sourceforge.net/)
siddec
             libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/,
                    http://sourceforge.net/projects/sidplay2/)
            libmusicbrainz (http://www.musicbrainz.org/)
trm
xine
            libxine
                         (http://xinehq.de/)
            libxvidcore
                           (http://www.xvid.org/)
xvid
```

Plugins derived from GPL code are as follows:

```
dvdreadsrc
              libdvdread
                            (http://www.dtek.chalmers.se/groups/dvd/)
               None
                            (Algorithm by Ralph Loader, Joerg Walter,
monoscope
                    Richard Boulton, and Andy Lo A Foe)
rtjpeg
           None
                         (Erik Walthinsen's algorithm)
          None
                       (http://www.linphone.org/ortp/)
rtp
synaesthesia
                         (http://www.logarithmic.net/pfh/synaesthesia)
system_encode
                None
                             (Algorithm by Chrisoph Moar, Wim Tayman's and
                    Erik Walthinsen)
vbidec
            None
                         (Algorithm by Billy Biggs, Doug Bell,
                   Erik Walthinsen and David I. Lehn)
```

Plugins which use a LGPL library are as follows:

```
alsa
            alsa
                        (http://alsa-project.org/)
artsdsink
              aRts
                          (http://arts-project.org/)
cacasink
              libcaca
                           (http://sam.zoy.org/projects/libcaca/)
colorspacelcs
               libcolorspace
dvdec
             libdy
                          (http://libdv.sourceforge.net/)
esdmon,esdsink libesd
                              (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
```

```
faac
            libfaac
                         (http://www.audiocoding.com/modules/mydownloads/)
fameenc
              libfame
                            (http://fame.sourceforge.net/)
ffmpeg
              ffmpeg
                            (http://ffmpeg.sourceforge.net/)
gdkpixbuf
               GTK+
                             (http://www.gtk.org/)
               gnome-vfs
                               (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)
gnomevfs
gst_arts
             aRts
                         (http://arts-project.org/)
gst1394
              libraw1394
                             (http://www.linux1394.org/)
            libaudiofile
                          (http://www.68k.org/~michael/audiofile/)
gstaf
            libsndfile
gstsf
                         (http://www.mega-nerd.com/libsndfile/)
hermescolorspace Hermes
                                (http://www.clanlib.org/hermes/)
            KDE
kio
                         (http://www.kde.org/)
                       (http://www.ladspa.org/)
ladspa
lame
            libmp3lame
                             (http://lame.sourceforge.net/)
libvisual
             libvisual
                          (http://libvisual.sourceforge.net/)
matroska
                         (http://www.matroska.org/)
mikmod
              libmikmod
                               (http://mikmod.raphnet.net/)
ossaudio
                        (http://www.opensound.com/)
qcamsrc
            librfb
rfbenc
sdlvideosink
               libsdl
                           (http://www.libsdl.org/)
shout2send
               libshout2
                             (http://www.icecast.org)
smoothwave
swfdec
                        (http://swfdec.sourceforge.net/)
tarkin
                       (http://svn.xiph.org/trunk/tarkin/)
textoverlay
              pango
                            (http://www.pango.org/)
dirac
                      (http://www.bbc.co.uk/rd/projects/dirac/)
effectv (Our ports was relicensed)(http://effectv.sourceforge.net/)
musepack
             (http://www.musepack.net/)
kate
            libtiger
                        (http://libtiger.googlecode.com/)
                     Optional, only for the tiger element
Plugins which use a BSD covered library are as follows:
            libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
ogg
vorbis
            libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
gsttheora
              libtheora
                           (http://www.theora.org/)
speex
                       (http://www.speex.org/)
flac
           libFLAC
                          (http://flac.sourceforge.net/)
kate
            libkate
                         (http://libkate.googlecode.com/)
Plugins based on libraries with other free licenses:
ximagesink
               libXv
xvimagesink
                libXv
```

gsm libgsm

- license:

- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

MIT X11 / X Consortium license

festival (http://www.cstr.ed.ac.uk/projects/festival/)

- license: http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg (http://www.ijg.org/)

- license: IJG license

nas (http://radscan.com/nas.html)

- license: NAS license

snapshot libpng (http://www.libpng.org/pub/png/)

- license: PNG license

mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (http://www.divx.com/)

osxaudio (http://www.apple.com/macosx/)

sunaudiosink (http://www.sun.com/)

Unsure:

faad libfaad (http://www.audiocoding.com/)

faad's license depends on its major version:

for FAAD1 : it is LGPLfor FAAD2 : it is GPL

look at these pages for more information on licenses:

http://www.audiocoding.com/modules/wiki/?page=FAAD2

http://www.audiocoding.com/modules/wiki/?page=FAAC

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

/* GStreamer

- * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
- * Copyright (C) 2003,2004 David A. Schleef <ds@schleef.org>

*

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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.
/* Element-Checklist-Version: 5 */
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <string.h>
#include <math.h>
/*#define DEBUG_ENABLED */
#include "gstaudioresample.h"
#include <gst/audio/audio.h>
GST_DEBUG_CATEGORY_STATIC (audioresample_debug);
#define GST_CAT_DEFAULT audioresample_debug
/* Audioresample signals and args */
enum
{
/* FILL ME */
LAST_SIGNAL
};
enum
{
ARG_0,
ARG_FILTERLEN
};
#define SUPPORTED_CAPS \
GST_STATIC_CAPS (\
  "audio/x-raw-int, " \
   "rate = (int) [ 1, MAX ], " \
   "channels = (int) [1, MAX], "
   "endianness = (int) BYTE_ORDER, " \
   "width = (int) 16, " \setminus
   "depth = (int) 16, " \setminus
   "signed = (boolean) true"
#if 0
 /* disabled because it segfaults */
"audio/x-raw-float, "
  "rate = (int) [1, MAX],"
 "channels = (int) [1, MAX],"
  "endianness = (int) BYTE_ORDER, " "width = (int) 32"
```

```
#endif
 )
  static GstStaticPadTemplate gst_audioresample_sink_template =
    GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK, GST_PAD_ALWAYS, SUPPORTED_CAPS);
  static GstStaticPadTemplate gst_audioresample_src_template =
    GST_STATIC_PAD_TEMPLATE ("src",
    GST PAD SRC, GST PAD ALWAYS, SUPPORTED CAPS);
  static void gst_audioresample_base_init (gpointer g_class);
  static void gst_audioresample_class_init (AudioresampleClass * klass);
  static void gst_audioresample_init (Audioresample * audioresample);
  static void gst_audioresample_dispose (GObject * object);
  static void gst_audioresample_chain (GstPad * pad, GstData * _data);
  static void gst_audioresample_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec);
  static void gst_audioresample_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec);
  static GstElementClass *parent class = NULL;
/*static guint gst_audioresample_signals[LAST_SIGNAL] = { 0 }; */
  GType audioresample_get_type (void)
   static GType audioresample_type = 0;
   if (!audioresample_type)
    static const GTypeInfo audioresample_info = {
    sizeof (AudioresampleClass),
        gst_audioresample_base_init,
        NULL,
        (GClassInitFunc) gst_audioresample_class_init,
        NULL,
        NULL,
        sizeof (Audioresample), 0,
        (GInstanceInitFunc) gst_audioresample_init, };
    audioresample_type =
       g_type_register_static (GST_TYPE_ELEMENT, "Audioresample",
       &audioresample_info, 0);
   }
   return audioresample_type;
```

```
static void gst_audioresample_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 (&gst_audioresample_src_template));
gst_element_class_add_pad_template (gstelement_class,
  gst_static_pad_template_get (&gst_audioresample_sink_template));
gst_element_class_set_details_simple (gstelement_class, "Audio scaler",
  "Filter/Converter/Audio",
  "Resample audio", "David Schleef <ds@schleef.org>");
static void gst_audioresample_class_init (AudioresampleClass * klass)
GObjectClass *gobject_class;
GstElementClass *gstelement_class;
gobject_class = (GObjectClass *) klass;
gstelement_class = (GstElementClass *) klass;
gobject_class->set_property = gst_audioresample_set_property;
gobject_class->get_property = gst_audioresample_get_property;
gobject_class->dispose = gst_audioresample_dispose;
g_object_class_install_property (G_OBJECT_CLASS (klass), ARG_FILTERLEN,
  g_param_spec_int ("filter-length", "filter_length", "filter_length",
     0, G_MAXINT, 16,
     G_PARAM_READWRITE | G_PARAM_CONSTRUCT | G_PARAM_STATIC_STRINGS));
parent_class = g_type_class_peek_parent (klass);
GST_DEBUG_CATEGORY_INIT (audioresample_debug, "audioresample", 0,
  "audioresample element");
}
static void gst_audioresample_expand_caps (GstCaps * caps)
{
gint i;
for (i = 0; i < gst\_caps\_get\_size (caps); i++) {
 GstStructure *structure = gst_caps_get_structure (caps, i);
 const GValue *value;
 value = gst_structure_get_value (structure, "rate");
```

```
if (value == NULL) {
  GST_ERROR ("caps structure doesn't have required rate field");
  return;
 }
 gst_structure_set (structure, "rate", GST_TYPE_INT_RANGE, 1, G_MAXINT, 0);
}
static GstCaps *gst_audioresample_getcaps (GstPad * pad)
Audioresample *audioresample;
GstCaps *caps;
GstPad *otherpad;
audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
  audioresample->srcpad;
caps = gst_pad_get_allowed_caps (otherpad);
gst_audioresample_expand_caps (caps);
return caps;
}
static GstCaps *gst_audioresample_fixate (GstPad * pad, const GstCaps * caps)
Audioresample *audioresample;
GstPad *otherpad;
int rate;
GstCaps *copy;
GstStructure *structure;
 audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
if (pad == audioresample->srcpad) {
 otherpad = audioresample->sinkpad;
 rate = audioresample->i_rate;
} else
 otherpad = audioresample->srcpad;
 rate = audioresample->o_rate;
if (!GST_PAD_IS_NEGOTIATING (otherpad))
 return NULL;
if (gst_caps_get_size (caps) > 1)
 return NULL;
```

```
copy = gst_caps_copy (caps);
structure = gst\_caps\_get\_structure (copy, 0);
if (rate) {
 if (gst_structure_fixate_field_nearest_int (structure, "rate", rate)) {
  return copy;
 }
gst_caps_free (copy);
return NULL:
static GstPadLinkReturn gst_audioresample_link (GstPad * pad,
 const GstCaps * caps)
Audioresample *audioresample;
GstStructure *structure;
int rate:
int channels:
gboolean ret;
GstPad *otherpad;
 audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
 otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
  audioresample->srcpad;
 structure = gst_caps_get_structure (caps, 0);
 ret = gst_structure_get_int (structure, "rate", &rate);
 ret &= gst_structure_get_int (structure, "channels", &channels);
if (!ret)
 return GST_PAD_LINK_REFUSED;
}
if (gst_pad_is_negotiated (otherpad))
 GstCaps *othercaps = gst_caps_copy (caps);
 int otherrate;
 GstPadLinkReturn linkret;
 if (pad == audioresample->srcpad) {
  otherrate = audioresample->i_rate;
  } else {
  otherrate = audioresample->o_rate;
  }
 gst_caps_set_simple (othercaps, "rate", G_TYPE_INT, otherrate, NULL);
 linkret = gst_pad_try_set_caps (otherpad, othercaps);
```

```
if (GST_PAD_LINK_FAILED (linkret)) {
  return GST_PAD_LINK_REFUSED;
 }
}
audioresample->channels = channels;
resample_set_n_channels (audioresample->resample, audioresample->channels);
if (pad == audioresample->srcpad) {
 audioresample->o rate = rate;
 resample_set_output_rate (audioresample->resample, audioresample->o_rate);
 GST_DEBUG ("set o_rate to %d", rate);
} else {
 audioresample->i_rate = rate;
 resample_set_input_rate (audioresample->resample, audioresample->i_rate);
 GST DEBUG ("set i rate to %d", rate);
}
return GST_PAD_LINK_OK;
}
static void gst_audioresample_init (Audioresample * audioresample)
ResampleState *r;
audioresample->sinkpad =
  gst_pad_new_from_static_template (&gst_audioresample_sink_template,
  "sink");
gst element add pad (GST ELEMENT (audioresample), audioresample->sinkpad);
gst_pad_set_chain_function (audioresample->sinkpad, gst_audioresample_chain);
gst_pad_set_link_function (audioresample->sinkpad, gst_audioresample_link);
gst_pad_set_getcaps_function (audioresample->sinkpad,
  gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->sinkpad,
  gst_audioresample_fixate);
audioresample->srcpad =
  gst_pad_new_from_static_template (&gst_audioresample_src_template, "src");
gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->srcpad);
gst_pad_set_link_function (audioresample->srcpad, gst_audioresample_link);
gst_pad_set_getcaps_function (audioresample->srcpad,
  gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->srcpad, gst_audioresample_fixate);
r = resample_new ();
audioresample = r;
```

```
resample_set_filter_length (r, 64);
resample_set_format (r, RESAMPLE_FORMAT_S16);
static void gst_audioresample_dispose (GObject * object)
Audioresample *audioresample = GST AUDIORESAMPLE (object);
if (audioresample->resample) {
 resample_free (audioresample->resample);
}
G_OBJECT_CLASS (parent_class)->dispose (object);
}
static void gst_audioresample_chain (GstPad * pad, GstData * _data)
GstBuffer *buf = GST BUFFER ( data);
Audioresample *audioresample;
ResampleState *r;
guchar *data;
gulong size;
int outsize;
GstBuffer *outbuf;
g_return_if_fail (pad != NULL);
g_return_if_fail (GST_IS_PAD (pad));
g_return_if_fail (buf != NULL);
audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
if (!GST_IS_BUFFER (_data)) {
 gst_pad_push (audioresample->srcpad, _data);
 return;
}
if (audioresample->passthru) {
 gst_pad_push (audioresample->srcpad, GST_DATA (buf));
 return;
}
r = audioresample->resample;
data = GST_BUFFER_DATA (buf);
size = GST_BUFFER_SIZE (buf);
GST_DEBUG ("got buffer of %ld bytes", size);
```

```
resample_add_input_data (r, data, size, (ResampleCallback) gst_data_unref,
  buf):
outsize = resample_get_output_size (r);
/* FIXME this is audioresample being dumb. dunno why */
if (outsize == 0) {
 GST ERROR ("overriding outbuf size");
 outsize = size;
outbuf = gst_buffer_new_and_alloc (outsize);
outsize = resample_get_output_data (r, GST_BUFFER_DATA (outbuf), outsize);
GST BUFFER SIZE (outbuf) = outsize;
GST_BUFFER_TIMESTAMP (outbuf) =
  audioresample->offset * GST_SECOND / audioresample->o_rate;
audioresample->offset += outsize / sizeof (gint16) / audioresample->channels;
gst_pad_push (audioresample->srcpad, GST_DATA (outbuf));
}
static void
 gst_audioresample_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
Audioresample *audioresample;
 g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
 audioresample = GST_AUDIORESAMPLE (object);
switch (prop_id) {
 case ARG FILTERLEN:
  audioresample->filter_length = g_value_get_int (value);
  GST_DEBUG_OBJECT (GST_ELEMENT (audioresample), "new filter length %d\n",
     audioresample->filter_length);
  resample_set_filter_length (audioresample->resample,
     audioresample->filter_length);
  default:G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
}
}
static void
 gst_audioresample_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec)
Audioresample *audioresample;
```

```
g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
audioresample = GST_AUDIORESAMPLE (object);
switch (prop_id) {
 case ARG_FILTERLEN:
  g value set int (value, audioresample->filter length);
  break:
 default:
  G OBJECT WARN INVALID PROPERTY ID (object, prop. id, pspec);
  break:
}
}
static gboolean plugin_init (GstPlugin * plugin)
resample init();
if (!gst_element_register (plugin, "audioresample", GST_RANK_PRIMARY,
     GST TYPE AUDIORESAMPLE)) {
 return FALSE;
}
return TRUE;
}
GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
 GST VERSION MINOR,
 "audioresample",
 "Resamples audio", plugin_init, VERSION, "LGPL", GST_PACKAGE_NAME,
 GST PACKAGE ORIGIN)
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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.
#ifndef __AUDIORESAMPLE_H__
#define __AUDIORESAMPLE_H__
#include <gst/gst.h>
#include <audioresample/resample.h>
G_BEGIN_DECLS
#define GST_TYPE_AUDIORESAMPLE \
(audioresample_get_type())
#define GST_AUDIORESAMPLE(obj) \
(G\_TYPE\_CHECK\_INSTANCE\_CAST((obj),GST\_TYPE\_AUDIORESAMPLE,Audioresample))
#define GST AUDIORESAMPLE CLASS(klass) \
(G\_TYPE\_CHECK\_CLASS\_CAST((klass),GST\_TYPE\_AUDIORESAMPLE,AudioresampleClass))
#define GST_IS_AUDIORESAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIORESAMPLE))
\# define\ GST\_IS\_AUDIORESAMPLE\_CLASS(klass) \setminus \\
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIORESAMPLE))
typedef struct _Audioresample Audioresample;
typedef struct _AudioresampleClass AudioresampleClass;
struct _Audioresample {
GstElement element;
GstPad *sinkpad,*srcpad;
gboolean passthru;
gint64 offset;
int channels;
int i_rate;
int o_rate;
int filter_length;
ResampleState * resample;
};
struct _AudioresampleClass {
```

```
GstElementClass parent_class;
};
GType gst_audioresample_get_type(void);
G END DECLS
#endif /* AUDIORESAMPLE H */
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* Copyright (C) <2003> 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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.
*/
* This file was (probably) generated from
* gstvideotemplate.c,v 1.18 2005/11/14 02:13:34 thomasvs Exp
* and
* $Id: make_filter,v 1.8 2004/04/19 22:51:57 ds Exp $
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/video/video.h>
#include <string.h>
#include <cog/cog.h>
#include <math.h>
#include <cog/cogvirtframe.h>
```

```
#define GST TYPE COGDOWNSAMPLE \
(gst_cogdownsample_get_type())
#define GST_COGDOWNSAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_COGDOWNSAMPLE,GstCogdownsample))
#define GST_COGDOWNSAMPLE_CLASS(klass) \
(G TYPE CHECK CLASS CAST((klass), GST TYPE COGDOWNSAMPLE, GstCogdownsampleClass))
#define GST_IS_COGDOWNSAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_COGDOWNSAMPLE))
#define GST IS COGDOWNSAMPLE CLASS(obj) \
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_COGDOWNSAMPLE))
typedef struct GstCogdownsample GstCogdownsample;
typedef struct _GstCogdownsampleClass GstCogdownsampleClass;
struct _GstCogdownsample
GstBaseTransform base transform;
};
struct _GstCogdownsampleClass
GstBaseTransformClass parent class;
};
GType gst_cogdownsample_get_type (void);
enum
ARG 0
};
static void gst_cogdownsample_base_init (gpointer g_class);
static void gst_cogdownsample_class_init (gpointer g_class,
 gpointer class data);
static void gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class);
static void gst_cogdownsample_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec);
static void gst_cogdownsample_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec);
static GstCaps *gst_cogdownsample_transform_caps (GstBaseTransform *
 base_transform, GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_cogdownsample_transform (GstBaseTransform *
 base_transform, GstBuffer * inbuf, GstBuffer * outbuf);
```

```
static gboolean gst_cogdownsample_get_unit_size (GstBaseTransform *
 base_transform, GstCaps * caps, guint * size);
static GstStaticPadTemplate gst_cogdownsample_sink_template =
GST_STATIC_PAD_TEMPLATE ("sink",
 GST_PAD_SINK,
 GST PAD ALWAYS,
 GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }"))
 );
static GstStaticPadTemplate gst_cogdownsample_src_template =
GST_STATIC_PAD_TEMPLATE ("src",
 GST_PAD_SRC,
 GST_PAD_ALWAYS,
 GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }"))
 );
GType
gst_cogdownsample_get_type (void)
static GType compress_type = 0;
if (!compress_type) {
 static const GTypeInfo compress_info = {
  sizeof (GstCogdownsampleClass),
  gst_cogdownsample_base_init,
  NULL,
  gst_cogdownsample_class_init,
  NULL,
  NULL,
  sizeof (GstCogdownsample),
  0,
  gst_cogdownsample_init,
 };
 compress_type = g_type_register_static (GST_TYPE_BASE_TRANSFORM,
    "GstCogdownsample", &compress_info, 0);
return compress_type;
static void
gst_cogdownsample_base_init (gpointer g_class)
GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);
```

```
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&gst_cogdownsample_src_template));
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&gst_cogdownsample_sink_template));
gst_element_class_set_details_simple (element_class,
  "Scale down video by factor of 2", "Filter/Effect/Video",
  "Scales down video by a factor of 2", "David Schleef <ds@schleef.org>");
static void
gst_cogdownsample_class_init (gpointer g_class, gpointer class_data)
GObjectClass *gobject_class;
GstBaseTransformClass *base_transform_class;
gobject_class = G_OBJECT_CLASS (g_class);
base transform class = GST BASE TRANSFORM CLASS (g class);
gobject_class->set_property = gst_cogdownsample_set_property;
gobject_class->get_property = gst_cogdownsample_get_property;
base_transform_class->transform = gst_cogdownsample_transform;
base_transform_class->transform_caps = gst_cogdownsample_transform_caps;
base_transform_class->get_unit_size = gst_cogdownsample_get_unit_size;
}
static void
gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class)
GST_DEBUG ("gst_cogdownsample_init");
static void
gst_cogdownsample_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
GstCogdownsample *src;
g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
src = GST_COGDOWNSAMPLE (object);
GST_DEBUG ("gst_cogdownsample_set_property");
switch (prop_id) {
 default:
  break;
```

```
}
static void
gst_cogdownsample_get_property (GObject * object, guint prop_id, GValue * value,
 GParamSpec * pspec)
GstCogdownsample *src;
g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
src = GST_COGDOWNSAMPLE (object);
switch (prop_id) {
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
}
}
static void
transform_value (GValue * dest, const GValue * src, GstPadDirection dir)
g_value_init (dest, G_VALUE_TYPE (src));
if (G_VALUE_HOLDS_INT (src)) {
 int x;
 x = g_value_get_int (src);
 if (dir == GST_PAD_SINK) {
  g_value_set_int (dest, x / 2);
  } else {
  g_value_set_int (dest, x * 2);
} else if (GST_VALUE_HOLDS_INT_RANGE (src)) {
 int min, max;
 min = gst_value_get_int_range_min (src);
 max = gst_value_get_int_range_max (src);
 if (dir == GST_PAD_SINK) {
  min = (min + 1) / 2;
  if (max == G\_MAXINT) {
   max = G_MAXINT / 2;
  } else {
   \max = (\max + 1) / 2;
  }
  } else {
  if (max > G\_MAXINT / 2) {
   max = G_MAXINT;
```

```
} else {
    max = max * 2;
  if (min > G\_MAXINT / 2) {
    min = G_MAXINT;
  } else {
    min = min * 2;
  }
  }
 gst_value_set_int_range (dest, min, max);
} else {
 /* FIXME */
 g_warning ("case not handled");
 g_value_set_int (dest, 100);
}
static GstCaps *
gst_cogdownsample_transform_caps (GstBaseTransform * base_transform,
 GstPadDirection direction, GstCaps * caps)
int i;
GstStructure *structure;
GValue new value = \{0\};
const GValue *value;
caps = gst_caps_copy (caps);
for (i = 0; i < gst\_caps\_get\_size (caps); i++) {
 structure = gst_caps_get_structure (caps, i);
 value = gst_structure_get_value (structure, "width");
 transform_value (&new_value, value, direction);
 gst_structure_set_value (structure, "width", &new_value);
 g_value_unset (&new_value);
 value = gst_structure_get_value (structure, "height");
 transform_value (&new_value, value, direction);
 gst_structure_set_value (structure, "height", &new_value);
 g_value_unset (&new_value);
return caps;
}
static gboolean
gst_cogdownsample_get_unit_size (GstBaseTransform * base_transform,
 GstCaps * caps, guint * size)
```

```
int width, height;
uint32_t format;
gst_structure_get_fourcc (gst_caps_get_structure (caps, 0),
  "format", &format);
gst_structure_get_int (gst_caps_get_structure (caps, 0), "width", &width);
gst_structure_get_int (gst_caps_get_structure (caps, 0), "height", &height);
switch (format) {
 case GST_MAKE_FOURCC ('I', '4', '2', '0'):
 case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
  *size = width * height * 3 / 2;
  break;
 case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
 case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
  *size = width * height * 2;
  break;
 case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
  *size = width * height * 4;
  break;
 default:
  g_assert_not_reached();
return TRUE;
static GstFlowReturn
gst_cogdownsample_transform (GstBaseTransform * base_transform,
 GstBuffer * inbuf, GstBuffer * outbuf)
GstCogdownsample *compress;
CogFrame *outframe;
int width, height;
uint32_t format;
CogFrame *frame;
g_return_val_if_fail (GST_IS_COGDOWNSAMPLE (base_transform), GST_FLOW_ERROR);
compress = GST_COGDOWNSAMPLE (base_transform);
gst_structure_get_fourcc (gst_caps_get_structure (inbuf->caps, 0),
  "format", &format);
gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
  "width", &width);
gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
  "height", &height);
```

```
switch (format) {
case GST MAKE FOURCC ('I', '4', '2', '0'):
  frame = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (inbuf),
    width, height);
  outframe = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (outbuf),
    width /2, height /2);
  break;
 case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
  frame = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (inbuf),
    width, height);
  outframe = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (outbuf),
    width /2, height /2);
  break:
 case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
  frame = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (inbuf),
    width, height);
  outframe = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (outbuf),
    width /2, height /2);
  break:
 case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
  frame = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (inbuf),
    width, height);
  outframe = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (outbuf),
    width / 2, height / 2);
  break:
 case GST MAKE FOURCC ('A', 'Y', 'U', 'V'):
  frame = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (inbuf),
    width, height);
  outframe = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (outbuf),
    width / 2, height / 2);
  break;
 default:
  g_assert_not_reached();
  return GST_FLOW_ERROR;
frame = cog_virt_frame_new_unpack (frame);
frame = cog_virt_frame_new_horiz_downsample (frame, 3);
frame = cog_virt_frame_new_vert_downsample (frame, 2);
switch (format) {
case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
  frame = cog_virt_frame_new_pack_YUY2 (frame);
  break;
 case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
  frame = cog_virt_frame_new_pack_UYVY (frame);
  break;
case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
```

```
frame = cog_virt_frame_new_pack_AYUV (frame);
   break:
  default:
   break;
}
cog virt frame render (frame, outframe);
cog_frame_unref (frame);
cog_frame_unref (outframe);
return GST_FLOW_OK;
/* GStreamer mplex (mipegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplex.cc: gstreamer mplex wrapper
* 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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-mplex
* @see also: mpeg2enc
* This element is an audio/video multiplexer for MPEG-1/2 video streams
* and (un)compressed audio streams such as AC3, MPEG layer I/II/III.
* It is based on the <ulink url="http://mjpeg.sourceforge.net/">mjpegtools</ulink> library.
* Documentation on creating MPEG videos in general can be found in the
* <ulink url="https://sourceforge.net/docman/display_doc.php?docid=3456&group_id=5776">MJPEG
Howto</ulink>
* and the man-page of the mplex tool documents the properties of this element,
* which are shared with the mplex tool.
* <refsect2>
```

```
* <title>Example pipeline</title>
* |[
* gst-launch -v videotestsrc num-buffers=1000! mpeg2enc! mplex! filesink location=videotestsrc.mpg
* ]| This example pipeline will encode a test video source to an
* MPEG1 elementary stream and multiplexes this to an MPEG system stream.
* <para>
* If several streams are being multiplexed, there should (as usual) be
* a queue in each stream, and due to mplex' buffering the capacities of these
* may have to be set to a few times the default settings to prevent the
* pipeline stalling.
* </para>
* </refsect2>
*/
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <string.h>
#include "gstmplex.hh"
#include "gstmplexoutputstream.hh"
#include "gstmplexibitstream.hh"
#include "gstmplexjob.hh"
GST_DEBUG_CATEGORY (mplex_debug);
static GstStaticPadTemplate src_templ = GST_STATIC_PAD_TEMPLATE ("src",
 GST PAD SRC,
 GST PAD ALWAYS,
 GST_STATIC_CAPS ("video/mpeg, systemstream = (boolean) true ")
 );
static GstStaticPadTemplate video_sink_templ =
GST_STATIC_PAD_TEMPLATE ("video_%d",
 GST PAD SINK,
 GST_PAD_REQUEST,
 GST_STATIC_CAPS ("video/mpeg, "
    "mpegversion = (int) \{1, 2\}, "
    "systemstream = (boolean) false, "
    "width = (int) [16, 4096],"
    "height = (int) [ 16, 4096 ], framerate = (fraction) [ 0, MAX ]")
 );
#define COMMON_AUDIO_CAPS \
"channels = (int) [1, 8], "
"rate = (int) [ 8000, 96000 ]"
```

```
static GstStaticPadTemplate audio_sink_templ =
 GST_STATIC_PAD_TEMPLATE ("audio_%d",
 GST_PAD_SINK,
 GST_PAD_REQUEST,
 GST STATIC CAPS ("audio/mpeg,"
    "mpegversion = (int) 1, "
    "layer = (int) [1, 3], "
    COMMON_AUDIO_CAPS "; "
    "audio/x-ac3, "
    COMMON AUDIO CAPS "; "
    "audio/x-dts: "
    "audio/x-raw-int, "
    "endianness = (int) BIG ENDIAN, "
    "signed = (boolean) TRUE, "
    "width = (int) { 16, 20, 24 }, "
    "depth = (int) \{ 16, 20, 24 \},"
    "rate = (int) { 48000, 96000 }, " "channels = (int) [ 1, 6 ]")
 );
/* FIXME: subtitles */
static void gst_mplex_finalize (GObject * object);
static void gst_mplex_reset (GstMplex * mplex);
static void gst_mplex_loop (GstMplex * mplex);
static GstPad *gst_mplex_request_new_pad (GstElement * element,
 GstPadTemplate * templ, const gchar * name);
static void gst_mplex_release_pad (GstElement * element, GstPad * pad);
static gboolean gst_mplex_src_activate_push (GstPad * pad, gboolean active);
static GstStateChangeReturn gst_mplex_change_state (GstElement * element,
 GstStateChange transition);
static void gst_mplex_get_property (GObject * object,
 guint prop_id, GValue * value, GParamSpec * pspec);
static void gst_mplex_set_property (GObject * object,
 guint prop_id, const GValue * value, GParamSpec * pspec);
GST_BOILERPLATE (GstMplex, gst_mplex, GstElement, GST_TYPE_ELEMENT);
static void
gst_mplex_base_init (gpointer klass)
GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
gst_element_class_set_details_simple (element_class,
  "mplex video multiplexer", "Codec/Muxer",
  "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
  "Andrew Stevens <andrew.stevens@nexgo.de>\n"
  "Ronald Bultje <rbultje@ronald.bitfreak.net>\n"
```

```
"Mark Nauwelaerts <mnauw@users.sourceforge.net>");
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&src_templ));
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&video_sink_templ));
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&audio_sink_templ));
static void
gst_mplex_class_init (GstMplexClass * klass)
GObjectClass *object_class = G_OBJECT_CLASS (klass);
GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
GST_DEBUG_CATEGORY_INIT (mplex_debug, "mplex", 0, "MPEG video/audio muxer");
object_class->set_property = gst_mplex_set_property;
object_class->get_property = gst_mplex_get_property;
/* register properties */
GstMplexJob::initProperties (object_class);
object_class->finalize = GST_DEBUG_FUNCPTR (gst_mplex_finalize);
element_class->change_state = GST_DEBUG_FUNCPTR (gst_mplex_change_state);
element_class->request_new_pad =
  GST_DEBUG_FUNCPTR (gst_mplex_request_new_pad);
element_class->release_pad = GST_DEBUG_FUNCPTR (gst_mplex_release_pad);
}
static void
gst_mplex_finalize (GObject * object)
GstMplex *mplex = GST_MPLEX (object);
GSList *walk:
/* release all pads */
walk = mplex->pads;
while (walk) {
 GstMplexPad *mpad = (GstMplexPad *) walk->data;
 gst_object_unref (mpad->pad);
 mpad->pad = NULL;
 walk = walk->next;
}
```

```
/* clean up what's left of them */
gst_mplex_reset (mplex);
/* ... and of the rest */
delete mplex->job;
g_mutex_free (mplex->tlock);
G_OBJECT_CLASS (parent_class)->finalize (object);
}
static void
gst_mplex_init (GstMplex * mplex, GstMplexClass * g_class)
GstElement *element = GST_ELEMENT (mplex);
GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);
mplex->srcpad =
  gst_pad_new_from_template (gst_element_class_get_pad_template
  (element_class, "src"), "src");
gst_element_add_pad (element, mplex->srcpad);
gst_pad_use_fixed_caps (mplex->srcpad);
gst_pad_set_activatepush_function (mplex->srcpad,
  GST_DEBUG_FUNCPTR (gst_mplex_src_activate_push));
mplex->job = new GstMplexJob ();
mplex->num\_apads = 0;
mplex->num_vpads = 0;
mplex->tlock = g_mutex_new ();
gst_mplex_reset (mplex);
static void
gst_mplex_reset (GstMplex * mplex)
{
GSList *walk;
GSList *nlist = NULL;
mplex->eos = FALSE;
mplex->srcresult = GST_FLOW_CUSTOM_SUCCESS;
/* reset existing streams */
walk = mplex->pads;
while (walk != NULL) {
 GstMplexPad *mpad;
```

```
mpad = (GstMplexPad *) walk->data;
 mpad->needed = 0;
 mpad->eos = FALSE;
 gst_adapter_clear (mpad->adapter);
 if (mpad->bs) {
  delete mpad->bs;
  mpad->bs = NULL;
 }
 if (!mpad->pad) {
  g_cond_free (mpad->cond);
  g_object_unref (mpad->adapter);
  g_free (mpad);
 } else
  nlist = g_slist_append (nlist, mpad);
 walk = walk->next;
}
g_slist_free (mplex->pads);
mplex->pads = nlist;
/* clear mplex stuff */
/* clean up stream settings */
while (!mplex->job->streams.empty ()) {
 delete mplex->job->streams.back ();
 mplex->job->streams.pop_back ();
while (!mplex->job->video_param.empty ()) {
 delete mplex->job->video_param.back ();
 mplex->job->video_param.pop_back ();
while (!mplex->job->lpcm_param.empty ()) {
 delete mplex->job->lpcm_param.back ();
 mplex->job->lpcm_param.pop_back ();
mplex->job->audio_tracks = 0;
mplex->job->video_tracks = 0;
mplex->job->lpcm_tracks = 0;
static gboolean
gst_mplex_setcaps (GstPad * pad, GstCaps * caps)
```

```
GstMplex *mplex;
const gchar *mime;
GstStructure *structure;
StreamKind type;
JobStream *jobstream;
GstMplexIBitStream *inputstream;
GstMplexPad *mpad;
GstCaps *othercaps;
gboolean ret = TRUE;
mplex = GST_MPLEX (GST_PAD_PARENT (pad));
/* does not go well to negotiate when started */
if (mplex->srcresult != GST_FLOW_CUSTOM_SUCCESS)
 goto refuse_renegotiation;
/* since muxer does not really check much ... */
othercaps = gst_caps_intersect (caps, gst_pad_get_pad_template_caps (pad));
if (othercaps)
 gst_caps_unref (othercaps);
else
 goto refuse_caps;
/* set the fixed template caps on the srcpad, should accept without objection */
othercaps = gst_caps_copy (gst_pad_get_pad_template_caps (mplex->srcpad));
ret = gst_pad_set_caps (mplex->srcpad, othercaps);
gst_caps_unref (othercaps);
if (!ret)
 goto refuse_caps;
structure = gst_caps_get_structure (caps, 0);
mime = gst_structure_get_name (structure);
if (!strcmp (mime, "video/mpeg")) { /* video */
 VideoParams *params;
 type = MPEG_VIDEO;
 if (mplex->job->bufsize)
  params = VideoParams::Checked (mplex->job->bufsize);
  params = VideoParams::Default (mplex->job->mux_format);
 /* set standard values if forced by the selected profile */
 if (params->Force (mplex->job->mux_format))
  GST_WARNING_OBJECT (mplex,
    "overriding non-standard option due to selected profile");
 mplex->job->video_param.push_back (params);
```

```
mplex->job->video_tracks++;
} else {
                    /* audio */
 if (!strcmp (mime, "audio/mpeg")) {
  type = MPEG_AUDIO;
 } else if (!strcmp (mime, "audio/x-ac3")) {
  type = AC3\_AUDIO;
 } else if (!strcmp (mime, "audio/x-dts")) {
  type = DTS_AUDIO;
 } else if (!strcmp (mime, "audio/x-raw-int")) {
  LpcmParams *params;
  gint bits, chans, rate;
  gboolean result = TRUE;
  type = LPCM_AUDIO;
  /* set LPCM params */
  result &= gst_structure_get_int (structure, "depth", &bits);
  result &= gst structure get int (structure, "rate", &rate);
  result &= gst_structure_get_int (structure, "channels", &chans);
  if (!result)
   goto refuse caps;
  params = LpcmParams::Checked (rate, chans, bits);
  mplex->job->lpcm_param.push_back (params);
  mplex->job->lpcm_tracks++;
 } else
  goto refuse_caps;
 mplex->job->audio_tracks++;
}
mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
g_return_val_if_fail (mpad, FALSE);
inputstream = new GstMplexIBitStream (mpad);
mpad->bs = inputstream;
jobstream = new JobStream (inputstream, type);
mplex->job->streams.push_back (jobstream);
return TRUE;
refuse_caps:
 GST_WARNING_OBJECT (mplex, "refused caps %" GST_PTR_FORMAT, caps);
 /* undo if we were a bit too fast/confident */
 if (GST_PAD_CAPS (mplex->srcpad))
  gst_pad_set_caps (mplex->srcpad, NULL);
```

```
return FALSE:
}
refuse_renegotiation:
 GST_WARNING_OBJECT (mplex, "already started; "
    "refused (re)negotiation (to %" GST PTR FORMAT")", caps);
 return FALSE;
}
}
static void
gst_mplex_loop (GstMplex * mplex)
GstMplexOutputStream *out = NULL;
Multiplexor *mux = NULL;
GSList *walk;
/* do not try to resume muxing after it finished
 * this can be relevant mainly/only in case of forced state change */
if (mplex->eos)
 goto eos;
/* inform downstream about what's coming */
gst_pad_push_event (mplex->srcpad, gst_event_new_new_segment (FALSE, 1.0,
     GST_FORMAT_BYTES, 0, -1, 0));
/* hm (!) each inputstream really needs an initial read
 * so that all is internally in the proper state */
walk = mplex->pads;
while (walk != NULL) {
 GstMplexPad *mpad;
 mpad = (GstMplexPad *) walk->data;
 mpad->bs->ReadBuffer();
 walk = walk->next;
/* create new multiplexer with inputs/output */
out = new GstMplexOutputStream (mplex, mplex->srcpad);
#if GST_MJPEGTOOLS_API >= 10900
mux = new Multiplexor (*mplex->job, *out, NULL);
#else
mux = new Multiplexor (*mplex->job, *out);
#endif
```

```
if (mux) {
 mux->Multiplex ();
 delete mux;
 delete out;
 /* if not well and truly eos, something strange happened */
 if (!mplex->eos) {
  GST_ERROR_OBJECT (mplex, "muxing task ended without being eos");
  /* notify there is no point in collecting any more */
  GST_MPLEX_MUTEX_LOCK (mplex);
  mplex->srcresult = GST_FLOW_ERROR;
  GST_MPLEX_SIGNAL_ALL (mplex);
  GST_MPLEX_MUTEX_UNLOCK (mplex);
 } else
  goto eos;
} else {
 GST_WARNING_OBJECT (mplex, "failed to create Multiplexor");
/* fall-through */
done:
 /* no need to run wildly, stopped elsewhere, e.g. state change */
 GST_DEBUG_OBJECT (mplex, "pausing muxing task");
 gst_pad_pause_task (mplex->srcpad);
 return;
}
eos:
 GST_DEBUG_OBJECT (mplex, "encoding task reached eos");
 goto done;
}
}
static gboolean
gst_mplex_sink_event (GstPad * sinkpad, GstEvent * event)
GstMplex *mplex;
GstMplexPad *mpad;
gboolean result = TRUE;
mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
g_return_val_if_fail (mpad, FALSE);
switch (GST_EVENT_TYPE (event)) {
 case GST_EVENT_FLUSH_START:
```

```
/* forward event */
  gst_pad_event_default (sinkpad, event);
  /* now unblock the chain function */
  GST MPLEX MUTEX LOCK (mplex);
  mplex->srcresult = GST_FLOW_WRONG_STATE;
  GST MPLEX SIGNAL (mplex, mpad);
  GST_MPLEX_MUTEX_UNLOCK (mplex);
  /* no way to pause/restart loop task */
  goto done;
 case GST_EVENT_FLUSH_STOP:
  /* forward event */
  gst_pad_event_default (sinkpad, event);
  /* clear state and resume */
  GST_MPLEX_MUTEX_LOCK (mplex);
  gst_adapter_clear (mpad->adapter);
  mplex->srcresult = GST FLOW OK;
  GST_MPLEX_MUTEX_UNLOCK (mplex);
  goto done;
 case GST EVENT NEWSEGMENT:
  /* eat segments; we make our own (byte)stream */
  gst_event_unref (event);
  goto done;
 case GST_EVENT_EOS:
  /* inform this pad that it can stop now */
  GST_MPLEX_MUTEX_LOCK (mplex);
  mpad->eos = TRUE;
  GST_MPLEX_SIGNAL (mplex, mpad);
  GST_MPLEX_MUTEX_UNLOCK (mplex);
  /* eat this event for now, task will send eos when finished */
  gst_event_unref (event);
  goto done;
 default:
  /* for a serialized event, wait until earlier data is gone,
  * though this is no guarantee as to when task is done with it.
  * Only wait if loop has been started already */
  if (GST_EVENT_IS_SERIALIZED (event)) {
   GST_MPLEX_MUTEX_LOCK (mplex);
   while (mplex->srcresult == GST_FLOW_OK && !mpad->needed)
    GST_MPLEX_WAIT (mplex, mpad);
   GST_MPLEX_MUTEX_UNLOCK (mplex);
  }
  break;
}
result = gst_pad_event_default (sinkpad, event);
```

```
done:
return result;
}
/* starts task if conditions are right for it
* must be called with mutex lock held */
static void
gst_mplex_start_task (GstMplex * mplex)
/* start task to create multiplexor and start muxing */
if (G_UNLIKELY (mplex->srcresult == GST_FLOW_CUSTOM_SUCCESS)
   && mplex->job->video_tracks == mplex->num_vpads
   && mplex->job->audio_tracks == mplex->num_apads) {
 gst_pad_start_task (mplex->srcpad, (GstTaskFunction) gst_mplex_loop, mplex);
 mplex->srcresult = GST_FLOW_OK;
static GstFlowReturn
gst_mplex_chain (GstPad * sinkpad, GstBuffer * buffer)
GstMplex *mplex;
GstMplexPad *mpad;
mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
g_return_val_if_fail (mpad, GST_FLOW_ERROR);
/* check if pad were properly negotiated and set up */
if (G_UNLIKELY (!mpad->bs)) {
 GST_ELEMENT_ERROR (mplex, CORE, NEGOTIATION, (NULL),
    ("input pad has not been set up prior to chain function"));
 return GST_FLOW_NOT_NEGOTIATED;
}
GST_MPLEX_MUTEX_LOCK (mplex);
gst_mplex_start_task (mplex);
if (G_UNLIKELY (mpad->eos))
 goto eos;
if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
 goto ignore;
gst_adapter_push (mpad->adapter, buffer);
buffer = NULL;
```

```
while (gst_adapter_available (mpad->adapter) >= mpad->needed) {
 GST_MPLEX_SIGNAL (mplex, mpad);
 GST_MPLEX_WAIT (mplex, mpad);
 /* may have become flushing or in error */
 if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
  goto ignore;
 /* or been removed */
 if (G_UNLIKELY (mpad->eos))
  goto eos;
}
GST_MPLEX_MUTEX_UNLOCK (mplex);
return GST_FLOW_OK;
/* special cases */
eos:
 GST_DEBUG_OBJECT (mplex, "ignoring buffer at end-of-stream");
 GST_MPLEX_MUTEX_UNLOCK (mplex);
 gst_buffer_unref (buffer);
 return GST_FLOW_UNEXPECTED;
ignore:
 GstFlowReturn ret = mplex->srcresult;
 GST_DEBUG_OBJECT (mplex, "ignoring buffer because src task encountered %s",
   gst_flow_get_name (ret));
 GST_MPLEX_MUTEX_UNLOCK (mplex);
 if (buffer)
  gst_buffer_unref (buffer);
 return ret;
}
static GstPad *
gst_mplex_request_new_pad (GstElement * element,
 GstPadTemplate * templ, const gchar * name)
GstElementClass *klass = GST_ELEMENT_GET_CLASS (element);
GstMplex *mplex = GST_MPLEX (element);
gchar *padname;
GstPad *newpad;
GstMplexPad *mpad;
```

```
if (templ == gst_element_class_get_pad_template (klass, "audio_%d")) {
 GST_DEBUG_OBJECT (mplex, "request pad audio %d", mplex->num_apads);
 padname = g_strdup_printf ("audio_%d", mplex->num_apads++);
} else if (templ == gst_element_class_get_pad_template (klass, "video_%d")) {
 GST_DEBUG_OBJECT (mplex, "request pad video %d", mplex->num_vpads);
 padname = g_strdup_printf ("video_%d", mplex->num_vpads++);
} else {
 GST_WARNING_OBJECT (mplex, "This is not our template!");
 return NULL;
}
newpad = gst_pad_new_from_template (templ, padname);
g free (padname);
mpad = g_new0 (GstMplexPad, 1);
mpad->adapter = gst_adapter_new ();
mpad->cond = g_cond_new ();
gst object ref (newpad);
mpad->pad = newpad;
gst pad set setcaps function (newpad, GST DEBUG FUNCPTR (gst mplex setcaps));
gst_pad_set_chain_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_chain));
gst_pad_set_event_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_sink_event));
gst_pad_set_element_private (newpad, mpad);
gst_element_add_pad (element, newpad);
mplex->pads = g_slist_append (mplex->pads, mpad);
return newpad;
}
static void
gst_mplex_release_pad (GstElement * element, GstPad * pad)
GstMplex *mplex = GST_MPLEX (element);
GstMplexPad *mpad;
g_return_if_fail (pad);
mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
g_return_if_fail (mpad);
if (gst_element_remove_pad (element, pad)) {
 gchar *padname;
 GST_MPLEX_MUTEX_LOCK (mplex);
 mpad->eos = TRUE;
 gst_object_unref (mpad->pad);
 mpad->pad = NULL;
 /* wake up if waiting on this pad */
```

```
GST_MPLEX_SIGNAL (mplex, mpad);
 padname = gst_object_get_name (GST_OBJECT (pad));
 if (strstr (padname, "audio")) {
  mplex->num_apads--;
  } else {
  mplex->num_vpads--;
 g_free (padname);
 /* may now be up to us to get things going */
 gst_mplex_start_task (mplex);
 GST_MPLEX_MUTEX_UNLOCK (mplex);
static void
gst_mplex_get_property (GObject * object,
 guint prop_id, GValue * value, GParamSpec * pspec)
GST_MPLEX (object)->job->getProperty (prop_id, value);
}
static void
gst_mplex_set_property (GObject * object,
 guint prop_id, const GValue * value, GParamSpec * pspec)
GST_MPLEX (object)->job->setProperty (prop_id, value);
}
static gboolean
gst_mplex_src_activate_push (GstPad * pad, gboolean active)
gboolean result = TRUE;
GstMplex *mplex;
mplex = GST_MPLEX (GST_PAD_PARENT (pad));
if (active) {
 /* chain will start task once all streams have been setup */
 /* end the muxing loop by forcing eos and unblock chains */
 GST_MPLEX_MUTEX_LOCK (mplex);
 mplex->eos = TRUE;
 mplex->srcresult = GST_FLOW_WRONG_STATE;
 GST_MPLEX_SIGNAL_ALL (mplex);
 GST_MPLEX_MUTEX_UNLOCK (mplex);
```

```
/* muxing loop should have ended now and can be joined */
 result = gst_pad_stop_task (pad);
return result;
static GstStateChangeReturn
gst_mplex_change_state (GstElement * element, GstStateChange transition)
GstMplex *mplex = GST_MPLEX (element);
GstStateChangeReturn ret;
switch (transition) {
 case\ GST\_STATE\_CHANGE\_NULL\_TO\_READY:
  break:
 case GST_STATE_CHANGE_READY_TO_PAUSED:
  break;
 case GST_STATE_CHANGE_PAUSED_TO_PLAYING:
  break;
 default:
  break;
}
ret = GST_ELEMENT_CLASS (parent_class)->change_state (element, transition);
if (ret == GST_STATE_CHANGE_FAILURE)
 goto done;
switch (transition) {
 case GST_STATE_CHANGE_PAUSED_TO_READY:
  gst_mplex_reset (mplex);
  break;
 default:
  break;
}
done:
return ret;
#ifndef GST_DISABLE_GST_DEBUG
static mjpeg_log_handler_t old_handler = NULL;
/* note that this will affect all mjpegtools elements/threads */
static void
gst_mplex_log_callback (log_level_t level, const char *message)
```

return gst_element_register (plugin, "mplex", GST_RANK_NONE, GST_TYPE_MPLEX);

mjpeg_default_handler_verbosity (0);

```
}
GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
 GST_VERSION_MINOR,
 "mplex",
 "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
 plugin init, VERSION, "GPL", GST PACKAGE NAME, GST PACKAGE ORIGIN)
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* gstmplex.hh: gstreamer mplex wrapper
* 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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.
#ifndef GST MPLEX H
#define __GST_MPLEX_H__
#include <gst/gst.h>
#include <gst/base/gstadapter.h>
#include <multiplexor.hpp>
#include "gstmplexibitstream.hh"
#include "gstmplexjob.hh"
G_BEGIN_DECLS
#define GST_TYPE_MPLEX \
(gst_mplex_get_type ())
#define GST_MPLEX(obj) \
(G_TYPE_CHECK_INSTANCE_CAST ((obj), GST_TYPE_MPLEX, GstMplex))
#define GST_MPLEX_CLASS(klass) \
(G\_TYPE\_CHECK\_CLASS\_CAST\ ((klass),\ GST\_TYPE\_MPLEX,\ GstMplex))
#define GST_IS_MPLEX(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE ((obj), GST_TYPE_MPLEX))
#define GST_IS_MPLEX_CLASS(obj) \
```

```
(G_TYPE_CHECK_CLASS_TYPE ((klass), GST_TYPE_MPLEX))
GST_DEBUG_CATEGORY_EXTERN (mplex_debug);
#define GST_CAT_DEFAULT mplex_debug
#define GST_MPLEX_MUTEX_LOCK(m) G_STMT_START {
GST LOG OBJECT (m, "locking tlock from thread %p", g thread self ()); \
g_mutex_lock ((m)->tlock);
GST_LOG_OBJECT (m, "locked tlock from thread %p", g_thread_self ()); \
} G STMT END
#define GST_MPLEX_MUTEX_UNLOCK(m) G_STMT_START {
GST_LOG_OBJECT (m, "unlocking tlock from thread %p", g_thread_self ()); \
g_mutex_unlock ((m)->tlock);
} G_STMT_END
#define GST_MPLEX_WAIT(m, p) G_STMT_START {
GST LOG OBJECT (m, "thread %p waiting", g thread self ());
g_cond_wait ((p)->cond, (m)->tlock);
} G_STMT_END
#define GST_MPLEX_SIGNAL(m, p) G_STMT_START {
GST_LOG_OBJECT (m, "signalling from thread %p", g_thread_self ()); \
g_cond_signal ((p)->cond);
} G_STMT_END
#define GST MPLEX SIGNAL ALL(m) G STMT START {
GST_LOG_OBJECT (m, "signalling all from thread %p", g_thread_self ()); \
GSList *walk = m->pads;
while (walk) {
GST_MPLEX_SIGNAL (m, (GstMplexPad *) walk->data);
walk = walk->next;
} G STMT END
typedef struct _GstMplexPad
/* associated pad */
GstPad *pad;
/* with mplex TLOCK */
/* adapter collecting buffers for this pad */
GstAdapter *adapter;
/* no more to expect on this pad */
gboolean eos;
/* signals counterpart thread to have a look */
GCond *cond;
/* amount needed by mplex on this stream */
guint needed;
```

```
/* bitstream for this pad */
GstMplexIBitStream *bs;
} GstMplexPad;
typedef struct _GstMplex {
GstElement parent;
/* pads */
GSList *pads;
GstPad *srcpad;
guint num_apads, num_vpads;
/* options wrapper */
GstMplexJob *job;
/* lock for syncing */
GMutex *tlock;
/* with TLOCK */
/* muxer writer generated eos */
gboolean eos;
/* flowreturn obtained by muxer task */
GstFlowReturn srcresult;
} GstMplex;
typedef struct _GstMplexClass {
GstElementClass parent;
} GstMplexClass;
GType gst_mplex_get_type (void);
G_END_DECLS
#endif /* __GST_MPLEX_H__ */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
* 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.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* 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.
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <string.h>
#include "gstmplex.hh"
#include "gstmplexibitstream.hh"
* Class init/exit functions.
*/
GstMplexIBitStream::GstMplexIBitStream (GstMplexPad * _data, guint buf_size):
IBitStream ()
{
mpad = _data;
mplex = GST_MPLEX (GST_PAD_PARENT (mpad->pad));
eos = FALSE;
SetBufSize (buf_size);
eobs = false;
by teidx = 0;
}
* Read data.
size t
 GstMplexIBitStream::ReadStreamBytes (uint8_t * buf, size_t size =
 BUFFER_SIZE)
guint8 *data;
GST_MPLEX_MUTEX_LOCK (mplex);
GST_DEBUG_OBJECT (mplex, "needing %d bytes", (guint) size);
while (gst_adapter_available (mpad->adapter) < size
  && !mplex->eos && !mpad->eos) {
```

```
mpad->needed = size;
 GST_MPLEX_SIGNAL (mplex, mpad);
 GST_MPLEX_WAIT (mplex, mpad);
}
mpad->needed = 0;
size = MIN (size, gst adapter available (mpad->adapter));
if (size) {
 data = gst_adapter_take (mpad->adapter, size);
 memcpy (buf, data, size);
 g_free (data);
GST_MPLEX_MUTEX_UNLOCK (mplex);
return size;
}
* Are we at EOS?
bool GstMplexIBitStream::EndOfStream (void)
return eos;
bool GstMplexIBitStream::ReadBuffer ()
return ReadIntoBuffer (BUFFER_SIZE);
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
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* Boston, MA 02111-1307, USA.
#ifndef __GST_MPLEXIBITSTREAM_H__
#define GST MPLEXIBITSTREAM H
#include <gst/gst.h>
#include <mjpeg_types.h>
#include <bits.hpp>
#include "gstmplex.hh"
/* forward declaration; break circular referencing */
typedef struct _GstMplex GstMplex;
typedef struct _GstMplexPad GstMplexPad;
class GstMplexIBitStream : public IBitStream {
public:
GstMplexIBitStream (GstMplexPad *pad, guint buf_size = BUFFER_SIZE);
bool ReadBuffer ();
protected:
/* read data */
size_t ReadStreamBytes (uint8_t *buf, size_t number);
/* are we at EOS? */
bool EndOfStream (void);
private:
GstMplex *mplex;
GstMplexPad *mpad;
gboolean eos;
};
#endif /* __GST_MPLEXIBITSTREAM_H__ */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
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* Boston, MA 02111-1307, USA.
*/
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include "gstmplexjob.hh"
enum
ARG_0,
ARG FORMAT,
ARG_MUX_BITRATE,
ARG_VBR,
ARG_SYSTEM_HEADERS,
ARG_SPLIT_SEQUENCE,
ARG_SEGMENT_SIZE,
ARG_PACKETS_PER_PACK,
ARG_SECTOR_SIZE,
ARG_BUFSIZE
  /* FILL ME */
};
* Property enumeration types.
#define GST_TYPE_MPLEX_FORMAT \
(gst_mplex_format_get_type ())
static GType
gst_mplex_format_get_type (void)
static GType mplex_format_type = 0;
if (!mplex_format_type) {
 static const GEnumValue mplex_formats[] = {
  {0, "Generic MPEG-1", "0"},
```

{1, "Standard VCD", "1"},

```
{2, "User VCD", "2"},
  {3, "Generic MPEG-2", "3"},
  {4, "Standard SVCD", "4"},
  {5, "User SVCD", "5"},
  {6, "VCD Stills sequences", "6"},
  {7, "SVCD Stills sequences", "7"},
  {8, "DVD MPEG-2 for dvdauthor", "8"},
  {9, "DVD MPEG-2", "9"},
  {0, NULL, NULL},
  };
 mplex_format_type =
    g_enum_register_static ("GstMplexFormat", mplex_formats);
}
return mplex_format_type;
}
* Class init functions.
GstMplexJob::GstMplexJob (void):
MultiplexJob ()
/* blabla */
bufsize = 0;
}
* GObject properties.
void
GstMplexJob::initProperties (GObjectClass * klass)
/* encoding profile */
g_object_class_install_property (klass, ARG_FORMAT,
  g_param_spec_enum ("format", "Format", "Encoding profile format",
     GST_TYPE_MPLEX_FORMAT, 0,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
/* total stream datarate. Normally, this shouldn't be needed, but
 * some DVD/VCD/SVCD players really need strict values to handle
 * the created files correctly. */
g_object_class_install_property (klass, ARG_MUX_BITRATE,
  g_param_spec_int ("mux-bitrate", "Mux. bitrate",
     "Bitrate of output stream in kbps (0 = autodetect)",
```

```
0, 15 * 1024, 0,
     (GParamFlags) (G PARAM READWRITE | G PARAM STATIC STRINGS)));
/* override decode buffer size otherwise determined by format */
g_object_class_install_property (klass, ARG_BUFSIZE,
  g_param_spec_int ("bufsize", "Decoder buf. size",
     "Target decoders video buffer size (kB)"
     "[default determined by format if not explicitly set]",
     20, 4000, 46,
     (GParamFlags) (G PARAM READWRITE | G PARAM STATIC STRINGS)));
/* some boolean stuff for headers */
g object class install property (klass, ARG VBR,
  g_param_spec_boolean ("vbr", "VBR",
     "Whether the input video stream is variable bitrate",
     FALSE.
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
g object class install property (klass, ARG SYSTEM HEADERS,
  g_param_spec_boolean ("system-headers", "System headers",
     "Create system header in every pack for generic formats",
     FALSE.
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
#if 0
                   /* not supported */
g_object_class_install_property (klass, ARG_SPLIT_SEQUENCE,
  g_param_spec_boolean ("split-sequence", "Split sequence",
     "Simply split a sequence across files "
     "(rather than building run-out/run-in)",
     FALSE.
     (GParamFlags) (G PARAM READWRITE | G PARAM STATIC STRINGS)));
/* size of a segment */
g_object_class_install_property (klass, ARG_SEGMENT_SIZE,
  g_param_spec_int ("max-segment-size", "Max. segment size",
     "Max. size per segment/file in MB (0 = unlimited)",
     0, 10 * 1024, 0,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
#endif
/* packets per pack (generic formats) */
g_object_class_install_property (klass, ARG_PACKETS_PER_PACK,
  g_param_spec_int ("packets-per-pack", "Packets per pack",
     "Number of packets per pack for generic formats",
     1, 100, 1,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
/* size of one sector */
g_object_class_install_property (klass, ARG_SECTOR_SIZE,
  g_param_spec_int ("sector-size", "Sector size",
```

```
"Specify sector size in bytes for generic formats",
     256, 16384, 2048,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
}
* set/get gobject properties.
void
GstMplexJob::getProperty (guint prop_id, GValue * value)
switch (prop_id) {
 case ARG_FORMAT:
  g_value_set_enum (value, mux_format);
  break:
 case ARG_MUX_BITRATE:
  /* convert from bytes back to bits */
  g_value_set_int (value, (data_rate * 8) / 1000);
  break;
 case ARG VBR:
  g_value_set_boolean (value, VBR);
  break;
 case ARG SYSTEM HEADERS:
  g_value_set_boolean (value, always_system_headers);
  break;
 case ARG_SPLIT_SEQUENCE:
  g_value_set_boolean (value, multifile_segment);
  break;
 case ARG_SEGMENT_SIZE:
  g_value_set_int (value, max_segment_size);
  break;
 case ARG_PACKETS_PER_PACK:
  g_value_set_int (value, packets_per_pack);
  break;
 case ARG_SECTOR_SIZE:
  g_value_set_int (value, sector_size);
  break;
 case ARG_BUFSIZE:
  g_value_set_int (value, bufsize);
  break;
 default:
  break;
}
}
void
GstMplexJob::setProperty (guint prop_id, const GValue * value)
```

```
switch (prop_id) {
 case ARG_FORMAT:
   mux_format = g_value_get_enum (value);
  break:
  case ARG_MUX_BITRATE:
   /* data rate expects bytes (don't ask me why the property itself is
   * in bits, I'm just staying compatible to mipegtools options), and
   * rounded up to 50-bytes. */
   data_rate = ((g_value_get_int (value) * 1000 / 8 + 49) / 50) * 50;
   break;
  case ARG_VBR:
   VBR = g_value_get_boolean (value);
   break;
  case ARG_SYSTEM_HEADERS:
   always_system_headers = g_value_get_boolean (value);
   break;
  case ARG SPLIT SEQUENCE:
   multifile_segment = g_value_get_boolean (value);
   break;
  case ARG SEGMENT SIZE:
   max_segment_size = g_value_get_int (value);
   break;
  case ARG PACKETS PER PACK:
   packets_per_pack = g_value_get_int (value);
   break;
  case ARG SECTOR SIZE:
   sector_size = g_value_get_int (value);
   break;
  case ARG BUFSIZE:
   bufsize = g_value_get_int (value);
   break;
  default:
   break;
}
}
/* GStreamer mplex (mjpegtools) wrapper
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* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
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* Boston, MA 02111-1307, USA.
#ifndef __GST_MPLEXJOB_H__
#define __GST_MPLEXJOB_H__
#include <glib-object.h>
#include <interact.hpp>
class GstMplexJob : public MultiplexJob {
public:
GstMplexJob (void);
/* gobject properties */
static void initProperties (GObjectClass *klass);
/* set/get gobject properties */
void getProperty (guint
                           prop_id,
   GValue
               *value);
void setProperty (guint
                           prop_id,
   const GValue *value);
int bufsize;
};
#endif /* GST MPLEXJOB H */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
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#ifdef HAVE CONFIG H
#include "config.h"
#endif
#include <string.h>
#include "gstmplex.hh"
#include "gstmplexoutputstream.hh"
* Class init functions.
GstMplexOutputStream::GstMplexOutputStream (GstMplex * _element, GstPad * _pad):
OutputStream ()
mplex = _element;
pad = _pad;
size = 0;
}
* Open/close. Basically 'no-op's (close() sets EOS).
* Open (): -1 means failure, 0 means success.
GstMplexOutputStream::Open (void)
return 0;
}
void
GstMplexOutputStream::Close (void)
GST_MPLEX_MUTEX_LOCK (mplex);
GST_DEBUG_OBJECT (mplex, "closing stream and sending eos");
gst_pad_push_event (pad, gst_event_new_eos ());
/* notify chain there is no more need to supply buffers */
mplex->eos = TRUE;
GST_MPLEX_SIGNAL_ALL (mplex);
```

```
GST_MPLEX_MUTEX_UNLOCK (mplex);
}
* Get size of current segment.
#if GST_MJPEGTOOLS_API >= 10900
uint64_t
GstMplexOutputStream::SegmentSize (void)
#else
off_t
GstMplexOutputStream::SegmentSize (void)
#endif
return size;
}
* Next segment; not really supported.
void
GstMplexOutputStream::NextSegment (void)
size = 0;
GST_WARNING_OBJECT (mplex, "multiple file output is not supported");
/* FIXME: no such filesink behaviour to be expected */
}
* Write data.
*/
void
GstMplexOutputStream::Write (guint8 * data, guint len)
GstBuffer *buf;
buf = gst_buffer_new_and_alloc (len);
memcpy (GST_BUFFER_DATA (buf), data, len);
size += len;
GST_MPLEX_MUTEX_LOCK (mplex);
gst_buffer_set_caps (buf, GST_PAD_CAPS (pad));
mplex->srcresult = gst_pad_push (pad, buf);
GST_MPLEX_MUTEX_UNLOCK (mplex);
```

```
}
/* GStreamer mplex (mjpegtools) wrapper
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* Boston, MA 02111-1307, USA.
*/
#ifndef __GST_MPLEXOUTPUTSTREAM_H__
#define __GST_MPLEXOUTPUTSTREAM_H__
#include <gst/gst.h>
#include <mjpeg_types.h>
#include <outputstrm.hpp>
#include "gstmplex.hh"
class GstMplexOutputStream : public OutputStream {
public:
GstMplexOutputStream (GstMplex *element, GstPad *pad);
/* open/close. Basically 'no-op's (close() sets EOS). */
int Open (void);
void Close (void);
/* get size of current segment */
#if GST_MJPEGTOOLS_API >= 10900
uint64_t SegmentSize (void);
#else
off_t SegmentSize (void);
#endif
/* next segment */
```

```
void NextSegment (void);

/* write data */
void Write (guint8 *data, guint len);

private:
   GstMplex *mplex;
   GstPad *pad;
   guint64 size;
};

#endif /* __GST_MPLEXOUTPUTSTREAM_H__ */
```

1.10 gstreamer-plugins-base 0.10.35.1

1.10.1 Available under license:

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Version 2, June 1991

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```
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```

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The plugins which use a GPL library are as follows:

```
a52dec
             liba52
                          (http://liba52.sourceforge.net/)
aasink
             aalib
                         (http://sourceforge.net/projects/aa-project/)
cdparanoia
               libcdparanoia (http://www.xiph.org/paranoia/)
dtsdec
                         (http://www.videolan.org/dtsdec.html)
            libdts
dvdnavsrc
               libdydnay
                              (http://dvd.sourceforge.net/)
dxr3
                       (http://dxr3.sourceforge.net/)
icecastsend
              libshout
                            (http://www.icecast.org)
            libmad
mad
                          (http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec
               libmpeg2
                              (http://libmpeg2.sourceforge.net/)
mpeg2enc
               libmpeg2enc
                                (http://mjpeg.sourceforge.net/)
mplex
             libmplex
                            (http://mjpeg.sourceforge.net/)
siddec
            libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/,
                    http://sourceforge.net/projects/sidplay2/)
trm
            libmusicbrainz (http://www.musicbrainz.org/)
            libxine
                         (http://xinehq.de/)
xine
xvid
            libxvidcore
                           (http://www.xvid.org/)
```

Plugins derived from GPL code are as follows:

```
dvdreadsrc
              libdydread
                             (http://www.dtek.chalmers.se/groups/dvd/)
jack
           libjack
                        (http://jackit.sourceforge.net/)
                    Note libjack is LGPL, but plugin is GPL.
               None
                            (Algorithm by Ralph Loader, Joerg Walter,
monoscope
                    Richard Boulton, and Andy Lo A Foe)
rtjpeg
            None
                         (Erik Walthinsen's algorithm)
           None
                        (http://www.linphone.org/ortp/)
rtp
synaesthesia
                         (http://www.logarithmic.net/pfh/synaesthesia)
system_encode None
                              (Algorithm by Chrisoph Moar, Wim Tayman's and
                    Erik Walthinsen)
vbidec
             None
                          (Algorithm by Billy Biggs, Doug Bell,
                    Erik Walthinsen and David I. Lehn)
```

Plugins which use a LGPL library are as follows:

```
alsa alsa (http://alsa-project.org/)
artsdsink aRts (http://arts-project.org/)
cacasink libcaca (http://sam.zoy.org/projects/libcaca/)
```

colorspacelcs libcolorspace dvdec libdy (http://libdv.sourceforge.net/) esdmon,esdsink libesd (ftp.gnome.org/pub/GNOME/stable/sources/esound/) faac libfaac (http://www.audiocoding.com/modules/mydownloads/) fameenc libfame (http://fame.sourceforge.net/) ffmpeg ffmpeg (http://ffmpeg.sourceforge.net/) gdkpixbuf GTK+ (http://www.gtk.org/) (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/) gnomevfs gnome-vfs gst_arts aRts (http://arts-project.org/) gst1394 libraw1394 (http://www.linux1394.org/) libaudiofile (http://www.68k.org/~michael/audiofile/) gstaf libsndfile (http://www.mega-nerd.com/libsndfile/) gstsf hermescolorspace Hermes (http://www.clanlib.org/hermes/) **KDE** kio (http://www.kde.org/) (http://www.ladspa.org/) ladspa lame libmp3lame (http://lame.sourceforge.net/) libvisual libvisual (http://libvisual.sourceforge.net/) matroska (http://www.matroska.org/) mikmod libmikmod (http://mikmod.raphnet.net/) ossaudio (http://www.opensound.com/) qcamsrc rfbenc librfb sdlvideosink libsdl (http://www.libsdl.org/) shout2send libshout2 (http://www.icecast.org) smoothwave swfdec (http://swfdec.sourceforge.net/) tarkin (http://svn.xiph.org/trunk/tarkin/) textoverlay (http://www.pango.org/) pango dirac (http://www.bbc.co.uk/rd/projects/dirac/) effectv (Our ports was relicensed)(http://effectv.sourceforge.net/) musepack (http://www.musepack.net/) Plugins which use a BSD covered library are as follows: ogg libogg/libvorbis (http://www.xiph.org/ogg/vorbis/) vorbis libogg/libvorbis (http://www.xiph.org/ogg/vorbis/) libtheora gsttheora (http://www.theora.org/) speex (http://www.speex.org/) flac libFLAC (http://flac.sourceforge.net/)

Plugins based on libraries with other free licenses:

ximagesink libXv xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

festival (http://www.cstr.ed.ac.uk/projects/festival/)

- license: http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg (http://www.ijg.org/)

- license: IJG license

nas (http://radscan.com/nas.html)

- license: NAS license

snapshot libpng (http://www.libpng.org/pub/png/)

- license: PNG license

mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (http://www.divx.com/)

osxaudio (http://www.apple.com/macosx/)

sunaudiosink (http://www.sun.com/)

Unsure:

faad libfaad (http://www.audiocoding.com/)

faad's license depends on its major version:

for FAAD1 : it is LGPLfor FAAD2 : it is GPL

look at these pages for more information on licenses:

http://www.audiocoding.com/modules/wiki/?page=FAAD2

http://www.audiocoding.com/modules/wiki/?page=FAAC

by default, GStreamer faad plugin would compile against FAAD2 if available. it falls back to FAAD1 if not.

1.11 gstreamer-plugins-good 0.10.30.1

1.11.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence

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```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

/* GStreamer

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a52dec

trm

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(http://liba52.sourceforge.net/)

The plugins which use a GPL library are as follows:

liba52

```
aasink
             aalib
                         (http://sourceforge.net/projects/aa-project/)
cdparanoia
               libcdparanoia (http://www.xiph.org/paranoia/)
dtsdec
            libdts
                         (http://www.videolan.org/dtsdec.html)
dvdnavsrc
              libdvdnav
                             (http://dvd.sourceforge.net/)
dxr3
                      (http://dxr3.sourceforge.net/)
icecastsend
              libshout
                            (http://www.icecast.org)
mad
            libmad
                          (http://www.mars.org/home/rob/proj/mpeg/)
                              (http://libmpeg2.sourceforge.net/)
mpeg2dec
               libmpeg2
mpeg2enc
               libmpeg2enc
                               (http://mjpeg.sourceforge.net/)
mplex
                           (http://mjpeg.sourceforge.net/)
             libmplex
siddec
            libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/,
                    http://sourceforge.net/projects/sidplay2/)
```

xine libxine (http://xinehq.de/)

xvid libxvidcore (http://www.xvid.org/)

Plugins derived from GPL code are as follows:

dvdreadsrc libdvdread (http://www.dtek.chalmers.se/groups/dvd/)

libmusicbrainz (http://www.musicbrainz.org/)

```
jack
            libjack
                         (http://jackit.sourceforge.net/)
                    Note libjack is LGPL, but plugin is GPL.
monoscope
                None
                             (Algorithm by Ralph Loader, Joerg Walter,
                     Richard Boulton, and Andy Lo A Foe)
            None
                          (Erik Walthinsen's algorithm)
rtjpeg
rtp
           None
                        (http://www.linphone.org/ortp/)
                          (http://www.logarithmic.net/pfh/synaesthesia)
synaesthesia
                              (Algorithm by Chrisoph Moar, Wim Tayman's and
system_encode
                 None
                     Erik Walthinsen)
vbidec
             None
                          (Algorithm by Billy Biggs, Doug Bell,
                    Erik Walthinsen and David I. Lehn)
Plugins which use a LGPL library are as follows:
alsa
            alsa
                       (http://alsa-project.org/)
artsdsink
              aRts
                          (http://arts-project.org/)
cacasink
              libcaca
                           (http://sam.zoy.org/projects/libcaca/)
colorspacelcs
               libcolorspace
             libdy
dvdec
                         (http://libdv.sourceforge.net/)
esdmon,esdsink libesd
                              (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
            libfaac
faac
                         (http://www.audiocoding.com/modules/mydownloads/)
fameenc
              libfame
                            (http://fame.sourceforge.net/)
                           (http://ffmpeg.sourceforge.net/)
ffmpeg
              ffmpeg
gdkpixbuf
               GTK+
                             (http://www.gtk.org/)
gnomevfs
               gnome-vfs
                              (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)
             aRts
gst arts
                         (http://arts-project.org/)
              libraw1394
gst1394
                             (http://www.linux1394.org/)
gstaf
            libaudiofile
                          (http://www.68k.org/~michael/audiofile/)
gstsf
            libsndfile
                         (http://www.mega-nerd.com/libsndfile/)
hermescolorspace Hermes
                                (http://www.clanlib.org/hermes/)
kio
           KDE
                         (http://www.kde.org/)
ladspa
                       (http://www.ladspa.org/)
lame
             libmp3lame
                             (http://lame.sourceforge.net/)
libvisual
             libvisual
                          (http://libvisual.sourceforge.net/)
matroska
                         (http://www.matroska.org/)
mikmod
               libmikmod
                              (http://mikmod.raphnet.net/)
ossaudio
                        (http://www.opensound.com/)
qcamsrc
             librfb
rfbenc
sdlvideosink
               libsdl
                           (http://www.libsdl.org/)
shout2send
               libshout2
                             (http://www.icecast.org)
smoothwave
swfdec
                        (http://swfdec.sourceforge.net/)
tarkin
                       (http://svn.xiph.org/trunk/tarkin/)
textoverlay
               pango
                            (http://www.pango.org/)
dirac
                      (http://www.bbc.co.uk/rd/projects/dirac/)
```

musepack

effectv (Our ports was relicensed)(http://effectv.sourceforge.net/)

(http://www.musepack.net/)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)

vorbis libogg/libvorbis (http://www.xiph.org/ogg/vorbis/) gsttheora libtheora (http://www.theora.org/)

gsttheora libtheora (http://www.theora.org speex (http://www.speex.org/)

flac libFLAC (http://flac.sourceforge.net/)

Plugins based on libraries with other free licenses:

ximagesink libXv xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

festival (http://www.cstr.ed.ac.uk/projects/festival/)

- license: http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg (http://www.ijg.org/)

- license: IJG license

nas (http://radscan.com/nas.html)

- license: NAS license

snapshot libpng (http://www.libpng.org/pub/png/)

- license: PNG license

mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (http://www.divx.com/)
osxaudio (http://www.apple.com/macosx/)

sunaudiosink (http://www.sun.com/)

Unsure:

faad libfaad (http://www.audiocoding.com/)

faad's license depends on its major version :

for FAAD1 : it is LGPLfor FAAD2 : it is GPL

look at these pages for more information on licenses :

http://www.audiocoding.com/modules/wiki/?page=FAAD2

http://www.audiocoding.com/modules/wiki/?page=FAAC

```
by default, GStreamer faad plugin would compile against FAAD2 if available.
it falls back to FAAD1 if not.
* GStreamer
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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.
/**
* SECTION:element-audioamplify
* Amplifies an audio stream by a given factor and allows the selection of different clipping modes.
* The difference between the clipping modes is best evaluated by testing.
* <refsect2>
* <title>Example launch line</title>
* gst-launch audiotestsrc wave=saw! audioamplify amplification=1.5! alsasink
* gst-launch filesrc location="melo1.ogg" ! oggdemux ! vorbisdec ! audioconvert ! audioamplify amplification=1.5
method=wrap-negative! alsasink
* gst-launch audiotestsrc wave=saw! audioconvert! audioamplify amplification=1.5 method=wrap-positive!
audioconvert! alsasink
* ]|
* </refsect2>
*/
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
```

```
#include <gst/audio/gstaudiofilter.h>
#include <gst/controller/gstcontroller.h>
#include "audioamplify.h"
#define GST_CAT_DEFAULT gst_audio_amplify_debug
GST DEBUG CATEGORY STATIC (GST CAT DEFAULT);
/* Filter signals and args */
enum
{
/* FILL ME */
LAST_SIGNAL
};
enum
{
PROP 0,
PROP_AMPLIFICATION,
PROP_CLIPPING_METHOD
};
enum
METHOD\_CLIP = 0,
METHOD_WRAP_NEGATIVE,
METHOD_WRAP_POSITIVE,
METHOD_NOCLIP,
NUM_METHODS
};
#define GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD (gst_audio_amplify_clipping_method_get_type
static GType
gst_audio_amplify_clipping_method_get_type (void)
static GType gtype = 0;
if (gtype == 0) {
 static const GEnumValue values[] = {
  {METHOD_CLIP, "Normal clipping (default)", "clip"},
  \{METHOD\_WRAP\_NEGATIVE,
      "Push overdriven values back from the opposite side",
     "wrap-negative"},
  {METHOD_WRAP_POSITIVE, "Push overdriven values back from the same side",
     "wrap-positive"},
  {METHOD_NOCLIP, "No clipping", "none"},
  {0, NULL, NULL}
```

```
};
 /* FIXME 0.11: rename to GstAudioAmplifyClippingMethod */
 gtype = g_enum_register_static ("GstAudioPanoramaClippingMethod", values);
}
return gtype;
}
#define ALLOWED_CAPS
 "audio/x-raw-int,"
                                             \
 " depth=(int)8,"
 " width=(int)8,"
 " endianness=(int)BYTE ORDER,"
 " signed=(bool)TRUE,"
 " rate=(int)[1,MAX],"
 " channels=(int)[1,MAX]; "
 "audio/x-raw-int,"
 " depth=(int)16,"
 " width=(int)16,"
 " endianness=(int)BYTE_ORDER,"
 " signed=(bool)TRUE,"
 " rate=(int)[1,MAX],"
 "channels=(int)[1,MAX]; "
 "audio/x-raw-int,"
 " depth=(int)32,"
 " width=(int)32,"
 " endianness=(int)BYTE_ORDER,"
 " signed=(bool)TRUE,"
 " rate=(int)[1,MAX],"
 " channels=(int)[1,MAX]; "
 "audio/x-raw-float,"
 " width=(int){32,64},"
 " endianness=(int)BYTE_ORDER,"
 " rate=(int)[1,MAX],"
 " channels=(int)[1,MAX]"
#define DEBUG_INIT(bla) \
GST_DEBUG_CATEGORY_INIT (gst_audio_amplify_debug, "audioamplify", 0, "audioamplify element");
GST_BOILERPLATE_FULL (GstAudioAmplify, gst_audio_amplify, GstAudioFilter,
 GST_TYPE_AUDIO_FILTER, DEBUG_INIT);
static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify *
 filter, gint clipping, gint format, gint width);
static void gst_audio_amplify_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec);
static void gst_audio_amplify_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec);
```

```
static gboolean gst_audio_amplify_setup (GstAudioFilter * filter,
 GstRingBufferSpec * format);
static GstFlowReturn gst_audio_amplify_transform_ip (GstBaseTransform * base,
 GstBuffer * buf);
#define MIN gint8 G MININT8
#define MAX_gint8 G_MAXINT8
#define MIN_gint16 G_MININT16
#define MAX_gint16 G_MAXINT16
#define MIN_gint32 G_MININT32
#define MAX_gint32 G_MAXINT32
#define MAKE_INT_FUNCS(type,largetype)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num samples--) {
 largetype val = *d * filter->amplification;
 *d++ = CLAMP (val, MIN_##type, MAX_##type);
}
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * filter, \
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 largetype val = *d * filter->amplification;
 if (val > MAX_##type)
  val = MIN_##type + (val - MIN_##type) % ((largetype) MAX_##type + 1 - \
     MIN ##type);
 else if (val < MIN_##type)
  val = MAX_{\#type} - (MAX_{\#type} - val) \% ((largetype) MAX_{\#type} + 1 - 
     MIN_##type);
 *d++ = val;
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
 void * data, guint num_samples)
type *d = data;
```

```
while (num_samples--) {
 largetype val = *d * filter->amplification;
 do {
  if (val > MAX_##type)
   val = MAX_##type - (val - MAX_##type);
  else if (val < MIN_##type)
   val = MIN_##type + (MIN_##type - val);
  else
   break;
 } while (1);
 *d++ = val;
static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--)
 *d++ *= filter->amplification;
}
#define MAKE_FLOAT_FUNCS(type)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 type val = *d* filter->amplification;
 *d++ = CLAMP (val, -1.0, +1.0);
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify *
 filter, void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 type val = *d * filter->amplification;
 do {
  if (val > 1.0)
   val = -1.0 + (val - 1.0);
  else if (val < -1.0)
   val = 1.0 - (1.0 - val);
```

```
else
    break;
  } while (1);
  *d++ = val;
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 type val = *d* filter->amplification;
 do {
  if (val > 1.0)
    val = 1.0 - (val - 1.0);
  else if (val < -1.0)
    val = -1.0 + (-1.0 - val);
   else
    break;
  } while (1);
 *d++ = val;
}
static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--)
  *d++ *= filter->amplification;
}
/* *INDENT-OFF* */
MAKE_INT_FUNCS (gint8,gint)
MAKE_INT_FUNCS (gint16,gint)
MAKE_INT_FUNCS (gint32,gint64)
MAKE_FLOAT_FUNCS (gfloat)
MAKE_FLOAT_FUNCS (gdouble)
/* *INDENT-ON* */
/* GObject vmethod implementations */
static void
gst_audio_amplify_base_init (gpointer klass)
```

```
GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
GstCaps *caps;
gst_element_class_set_details_simple (element_class, "Audio amplifier",
  "Filter/Effect/Audio",
  "Amplifies an audio stream by a given factor",
  "Sebastian Drge <slomo@circular-chaos.org>");
caps = gst_caps_from_string (ALLOWED_CAPS);
gst_audio_filter_class_add_pad_templates (GST_AUDIO_FILTER_CLASS (klass),
  caps);
gst_caps_unref (caps);
}
static void
gst_audio_amplify_class_init (GstAudioAmplifyClass * klass)
GObjectClass *gobject class;
gobject_class = (GObjectClass *) klass;
gobject class->set property = gst audio amplify set property;
gobject_class->get_property = gst_audio_amplify_get_property;
g object class install property (gobject class, PROP AMPLIFICATION,
  g_param_spec_float ("amplification", "Amplification",
    "Factor of amplification", -G_MAXFLOAT, G_MAXFLOAT,
    G_PARAM_READWRITE | GST_PARAM_CONTROLLABLE | G_PARAM_STATIC_STRINGS));
/**
 * GstAudioAmplify:clipping-method
 * Clipping method: clip mode set values higher than the maximum to the
 * maximum. The wrap-negative mode pushes those values back from the
 * opposite side, wrap-positive pushes them back from the same side.
 **/
g_object_class_install_property (gobject_class, PROP_CLIPPING_METHOD,
  g_param_spec_enum ("clipping-method", "Clipping method",
    "Selects how to handle values higher than the maximum",
    GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD, METHOD_CLIP,
    G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS));
GST_AUDIO_FILTER_CLASS (klass)->setup =
  GST_DEBUG_FUNCPTR (gst_audio_amplify_setup);
GST_BASE_TRANSFORM_CLASS (klass)->transform_ip =
  GST_DEBUG_FUNCPTR (gst_audio_amplify_transform_ip);
}
```

```
static void
gst_audio_amplify_init (GstAudioAmplify * filter, GstAudioAmplifyClass * klass)
filter->amplification = 1.0;
gst_audio_amplify_set_process_function (filter, METHOD_CLIP,
  GST BUFTYPE LINEAR, 16);
gst_base_transform_set_in_place (GST_BASE_TRANSFORM (filter), TRUE);
gst_base_transform_set_gap_aware (GST_BASE_TRANSFORM (filter), TRUE);
}
static GstAudioAmplifyProcessFunc
gst_audio_amplify_process_function (gint clipping, gint format, gint width)
static const struct process
 gint format;
 gint width;
 gint clipping;
 GstAudioAmplifyProcessFunc func;
\} process[] = {
 {
 GST_BUFTYPE_FLOAT, 32, METHOD_CLIP,
    gst audio amplify transform gfloat clip}, {
 GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gfloat_wrap_negative}, {
 GST BUFTYPE FLOAT, 32, METHOD WRAP POSITIVE,
    gst_audio_amplify_transform_gfloat_wrap_positive}, {
 GST BUFTYPE FLOAT, 32, METHOD NOCLIP,
    gst audio amplify transform gfloat noclip}, {
 GST_BUFTYPE_FLOAT, 64, METHOD_CLIP,
    gst_audio_amplify_transform_gdouble_clip}, {
 GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gdouble_wrap_negative}, {
 GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gdouble_wrap_positive}, {
 GST_BUFTYPE_FLOAT, 64, METHOD_NOCLIP,
    gst_audio_amplify_transform_gdouble_noclip}, {
 GST_BUFTYPE_LINEAR, 8, METHOD_CLIP, gst_audio_amplify_transform_gint8_clip}, {
 GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint8_wrap_negative}, {
 GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint8_wrap_positive}, {
 GST_BUFTYPE_LINEAR, 8, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint8_noclip}, {
 GST_BUFTYPE_LINEAR, 16, METHOD_CLIP,
    gst_audio_amplify_transform_gint16_clip}, {
 GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_NEGATIVE,
```

```
gst_audio_amplify_transform_gint16_wrap_negative}, {
 GST_BUFTYPE_LINEAR, 16, METHOD_WRAP_POSITIVE,
     gst_audio_amplify_transform_gint16_wrap_positive}, {
 GST_BUFTYPE_LINEAR, 16, METHOD_NOCLIP,
     gst_audio_amplify_transform_gint16_noclip}, {
 GST_BUFTYPE_LINEAR, 32, METHOD_CLIP,
     gst audio amplify transform gint32 clip}, {
 GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_NEGATIVE,
     gst_audio_amplify_transform_gint32_wrap_negative}, {
 GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_POSITIVE,
     gst_audio_amplify_transform_gint32_wrap_positive}, {
 GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
     gst_audio_amplify_transform_gint32_noclip}, {
 0, 0, 0, NULL}
const struct process *p;
for (p = process; p->func; p++)
 if (p->format == format && p->width == width && p->clipping == clipping)
  return p->func;
return NULL;
}
static gboolean
gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint
 clipping_method, gint format, gint width)
GstAudioAmplifyProcessFunc process;
/* set processing function */
process = gst_audio_amplify_process_function (clipping_method, format, width);
if (!process) {
 GST DEBUG ("wrong format");
 return FALSE;
filter->process = process;
filter->clipping_method = clipping_method;
filter->format = format;
filter->width = width;
return TRUE;
}
static void
gst_audio_amplify_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
```

```
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);
switch (prop_id) {
 case PROP_AMPLIFICATION:
  filter->amplification = g_value_get_float (value);
  gst base transform set passthrough (GST BASE TRANSFORM (filter),
     filter->amplification == 1.0);
  break;
 case PROP_CLIPPING_METHOD:
  gst_audio_amplify_set_process_function (filter, g_value_get_enum (value),
     filter->format, filter->width);
  break:
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
static void
gst_audio_amplify_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);
switch (prop_id) {
 case PROP AMPLIFICATION:
  g_value_set_float (value, filter->amplification);
  break;
 case PROP CLIPPING METHOD:
  g_value_set_enum (value, filter->clipping_method);
  break;
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
}
}
/* GstAudioFilter vmethod implementations */
static gboolean
gst_audio_amplify_setup (GstAudioFilter * base, GstRingBufferSpec * format)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
return gst_audio_amplify_set_process_function (filter,
  filter->clipping_method, format->type, format->width);
}
```

```
/* GstBaseTransform vmethod implementations */
static GstFlowReturn
gst_audio_amplify_transform_ip (GstBaseTransform * base, GstBuffer * buf)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
guint num_samples;
GstClockTime timestamp, stream time;
timestamp = GST_BUFFER_TIMESTAMP (buf);
stream time =
  gst_segment_to_stream_time (&base->segment, GST_FORMAT_TIME, timestamp);
GST DEBUG OBJECT (filter, "sync to %" GST TIME FORMAT,
  GST_TIME_ARGS (timestamp));
if (GST CLOCK TIME IS VALID (stream time))
 gst_object_sync_values (G_OBJECT (filter), stream_time);
num_samples =
  GST_BUFFER_SIZE (buf) / (GST_AUDIO_FILTER (filter)->format.width / 8);
if (gst_base_transform_is_passthrough (base) ||
  G_UNLIKELY (GST_BUFFER_FLAG_IS_SET (buf, GST_BUFFER_FLAG_GAP)))
 return GST FLOW OK;
filter->process (filter, GST BUFFER DATA (buf), num samples);
return GST_FLOW_OK;
}
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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
```

```
*/
#ifndef __GST_AUDIO_AMPLIFY_H__
#define __GST_AUDIO_AMPLIFY_H__
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>
G_BEGIN_DECLS
#define GST_TYPE_AUDIO_AMPLIFY
                                         (gst_audio_amplify_get_type())
#define GST_AUDIO_AMPLIFY(obj)
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplify))
#define GST_IS_AUDIO_AMPLIFY(obj)
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST((klass)
,GST TYPE AUDIO AMPLIFY,GstAudioAmplifyClass))
#define GST_IS_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass)
,GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_GET_CLASS(obj) (G_TYPE_INSTANCE_GET_CLASS((obj)
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
typedef struct _GstAudioAmplify GstAudioAmplify;
typedef struct _GstAudioAmplifyClass GstAudioAmplifyClass;
typedef void (*GstAudioAmplifyProcessFunc) (GstAudioAmplify *, void *, guint);
struct _GstAudioAmplify
GstAudioFilter audiofilter;
gfloat amplification;
/* < private > */
GstAudioAmplifyProcessFunc process;
gint clipping_method;
gint format;
gint width;
};
struct _GstAudioAmplifyClass
GstAudioFilterClass parent;
};
```

G_END_DECLS

GType gst_audio_amplify_get_type (void);

1.12 icu4c 56.1

1.12.1 Available under license:

ICU License - ICU 1.8.1 and later

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1.13 jansson 2.3.1

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1.14 json-c 0.12

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1.15 json-c/test-driver 0.12

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```
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scriptversion=2012-06-27.10; # UTC
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# This file is maintained in Automake, please report
# bugs to <bug-automake@gnu.org> or send patches to
# <automake-patches@gnu.org>.
# Make unconditional expansion of undefined variables an error. This
```

helps a lot in preventing typo-related bugs.

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1.16 ldns 1.6.13

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1.17 libcURL 7.42.1

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1.18 libcURL_ASLv2.0 7.42.1

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1.21 libyuv r1175 :ICS

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1.22 MTPopupWindow 06 Jan 2013

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1.23 NSData+Base64 n/a

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1.24 openIdap 2.4.42

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1.25 openssl 1.0.1q:1

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1.26 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
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1.28 SRTP1.4.2 1.4.2

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1.29 Toast 0

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UIView+Toast.h

Toast

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1.30 unbound 1.4.18

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1.31 zlib 1.2.8

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/*

- * match.S -- optimized version of longest_match()
- * based on the similar work by Gilles Vollant, and Brian Raiter, written 1998

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