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Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100) Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100) Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

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Herve Bronnimann (hbr -at- poly.edu)

Hervé Brönnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi) Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST) Hubert Holin (hubert\_holin -at- users.sourceforge.net) Indiana University () Itay Maman (imaman -at- users.sourceforge.net) Jaakko Järvi (jajarvi -at- osl.iu.edu) Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700) Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700) Jens Maurer (Jens.Maurer@gmx.net) Jeremy G Siek (jsiek@osl.iu.edu) Jeremy Siek (jsiek@osl.iu.edu) Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST) John Bandela (jbandela-at-ufl.edu) John Maddock (john - at - johnmaddock.co.uk) John R Bandela (jbandela-at-ufl.edu) Jonathan Turkanis (turkanis -at- coderage dot com) Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200) Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200) Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST) Lars Gullik Bjønnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100) Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu) Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100) Mac Murrett (mmurrett -at- mac.com) Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log) Michael Glassford (glassfordm - at - hotmail.com) Michael Stevens (Michael.Stevens - at - epost.de) Multi Media Ltd. (pdimov@mmltd.net) Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100) Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100) Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST) Pavol Droba (droba -at- topmail.sk) Peter Dimov (pdimov@mmltd.net) R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov) Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov) Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100) Rene Rivera (grafik/redshift-software.com, rrivera/acm.org) Robert Ramey (ramey@www.rrsd.com) Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200) Roland Schwarz (roland.schwarz -at- chello.at) Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log) Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200) Stefan Seefeld (seefeld -at- sympatico.ca) Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100) Steve Cleary (Variant of Stephen Cleary) Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr) The Trustees of Indiana University () Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)

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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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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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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.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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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#### 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>

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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>

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

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

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

</itemizedlist>

together in one distribution/operating system ? If not, what

needs to be changed to make this possible ?

</para> </question> <answer>

<para>

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

</para>

#### <para>

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

</para>

#### <para>

Note: MyPlayer is a completely fictituous application at the time of writing. </para>

</answer>

</qandaentry>

<qandaentry>

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

<para>

Suppose Apple wants to write a binary-only proprietary

plugin for GStreamer to decode Sorenson video, which will be shipped

stand-alone, not part of a package like in the question above.

Can Apple distribute this binary-only plugin ?

</para>

</question>

<answer>

<para>

Yes, modulo certain reverse engineering requirements in section 6 of

the LGPL.

</para> </answer>

</qandaentry>

<qandaentry>

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

<para>

If a program released under the GPL uses a library that

is LGPL, and this library can dlopen plug-ins at runtime, what are the

requirements for the license of the plug-in ?

```
</para>
</question>
```

<answer>

<para>

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

</para> </answer> </gandaentry> <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> </gandaentry> <qandaentry> <question id="legal-unsafe-countries"> <para> Can someone from the US distribute software covered by US patents under the GPL to people in Norway? To people in the US? </para> </question> <answer> <para> This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

</para> </answer> </qandaentry>

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

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

</para> </question>

<answer>

<para>

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

</para>

#### <para>

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

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

</para> </answer>

</qandaentry>

<qandaentry>

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

<para>

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

</para> </question>

<answer>

<para>

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

</para> </answer> </qandaentry>

```
<qandaentry>
<question id="legal-gpl-and-binary">
<para>
Patented decoding can be implemented in GStreamer either by
```

having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?

```
</para>
</question>
```

<answer> <para>

#### No.

</para> </answer>

</qandaentry>

<qandaentry>

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

<para>

Is it correct that you cannot distribute the GPL mad library to

decode mp3's, \*even\* in the case where you have obtained a valid license for decoding mp3 ?

</para> </question>

<answer>

<para>

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

</para>

<para>

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

</para> </answer>

</qandaentry>

</qandaset>

</sect1>

/\* GStreamer

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

\*

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\*

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\*

\* PadTemplates have a #GstPadPresence property which identifies the lifetime

\* of the pad and that can be retrieved with GST\_PAD\_TEMPLATE\_PRESENCE(). Also

```
* the direction of the pad can be retrieved from the #GstPadTemplate with
```

```
* GST_PAD_TEMPLATE_DIRECTION().
```

\*

```
* The GST_PAD_TEMPLATE_NAME_TEMPLATE () is important for GST_PAD_REQUEST pads
```

```
* because it has to be used as the name in the gst_element_get_request_pad()
```

```
* call to instantiate a pad from this template.
```

\*

- \* Padtemplates can be created with gst\_pad\_template\_new() or with
- \* gst\_static\_pad\_template\_get (), which creates a #GstPadTemplate from a
- \* #GstStaticPadTemplate that can be filled with the
- \* convenient GST\_STATIC\_PAD\_TEMPLATE() macro.

\*

\* A padtemplate can be used to create a pad (see gst\_pad\_new\_from\_template()

```
* or gst_pad_new_from_static_template ()) or to add to an element class
```

```
* (see gst_element_class_add_pad_template ()).
```

\*

```
* The following code example shows the code to create a pad from a padtemplate.
```

\* <example>

```
* <title>Create a pad from a padtemplate</title>
```

- \* <programlisting>
- \* GstStaticPadTemplate my\_template =
- \* GST\_STATIC\_PAD\_TEMPLATE (
- \* "sink", // the name of the pad
- \* GST\_PAD\_SINK, // the direction of the pad
- \* GST\_PAD\_ALWAYS, // when this pad will be present
- \* GST\_STATIC\_CAPS ( // the capabilities of the padtemplate
- \* "audio/x-raw-int, "
- \* "channels = (int) [ 1, 6 ]"
- \* )
- \* );
- \* void
- \* my\_method (void)
- \* {
- \* GstPad \*pad;
- \* pad = gst\_pad\_new\_from\_static\_template (&my\_template, "sink");
- \* ...
- \* }
- \* </programlisting>
- \* </example>
- \*

\* The following example shows you how to add the padtemplate to an

- \* element class, this is usually done in the base\_init of the class:
- \* <informalexample>
- \* <programlisting>
- \* static void
- \* my\_element\_base\_init (gpointer g\_class)

```
* {
```

\* GstElementClass \*gstelement\_class = GST\_ELEMENT\_CLASS (g\_class);

```
*
*
    gst_element_class_add_pad_template (gstelement_class,
*
      gst_static_pad_template_get (&my_template));
* }
* </programlisting>
* </informalexample>
*
* Last reviewed on 2006-02-14 (0.10.3)
*/
#include "gst_private.h"
#include "gstpad.h"
#include "gstpadtemplate.h"
#include "gstenumtypes.h"
#include "gstmarshal.h"
#include "gstutils.h"
#include "gstinfo.h"
#include "gsterror.h"
#include "gstvalue.h"
```

### #define GST\_CAT\_DEFAULT GST\_CAT\_PADS

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

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

static 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 \mid G\_PARAM\_CONSTRUCT\_ONLY \mid 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,

 $G\_PARAM\_READWRITE \mid G\_PARAM\_CONSTRUCT\_ONLY \mid G\_PARAM\_STATIC\_STRINGS));$ 

/\*\*

```
* GstPadTemplate:presence
```

\*

 $\ast$  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,

 $G\_PARAM\_READWRITE \mid G\_PARAM\_CONSTRUCT\_ONLY \mid G\_PARAM\_STATIC\_STRINGS));$ 

/\*\*

```
* 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,
```

 $G\_PARAM\_READWRITE \mid G\_PARAM\_CONSTRUCT\_ONLY \mid G\_PARAM\_STATIC\_STRINGS));$ 

```
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

 $\ast$  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.

\*

 $\ast$  For consistency, then, we only produce them  $% \mathcal{A}$  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)
ł
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
*
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* 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/gstquery.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 OBJECT FLAG LAST << 0),
GST PAD TEMPLATE FIXED
/* padding */
GST_PAD_TEMPLATE_FLAG_LAST = (GST_OBJECT_FLAG_LAST << 4)
} GstPadTemplateFlags;
/**
* GST PAD TEMPLATE IS FIXED:
* @templ: the template to query
* Check if the properties of the padtemplate are fixed
*/
#define GST_PAD_TEMPLATE_IS_FIXED(templ) (GST_OBJECT_FLAG_IS_SET(templ,
GST_PAD_TEMPLATE_FIXED))
/**
* GstPadTemplate:
*
* The padtemplate object.
*/
struct _GstPadTemplate {
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.
```

```
*/
```

 $\texttt{#define GST\_STATIC\_PAD\_TEMPLATE(padname, dir, pres, caps) \setminus }$ 

```
{ \
```

```
/* name_template */ padname, \ /* direction */ dir, \
```

/\* presence \*/ pres, \

```
/* caps */ caps \
```

```
}
```

/\* templates and factories \*/
GType gst\_pad\_template\_get\_type (void);
GType gst\_static\_pad\_template\_get\_type (void);

GstPadTemplate\* gst\_pad\_template\_new (const gchar \*name\_template, GstPadDirection direction, GstPadPresence presence, GstCaps \*caps) G\_GNUC\_MALLOC;

GstPadTemplate \* gst\_static\_pad\_template\_get (GstStaticPadTemplate \*pad\_template); GstCaps\* gst\_static\_pad\_template\_get\_caps (GstStaticPadTemplate \*templ); GstCaps\* gst\_pad\_template\_get\_caps (GstPadTemplate \*templ);

void gst\_pad\_template\_pad\_created

(GstPadTemplate \* templ, GstPad \* pad);

G\_END\_DECLS

#endif /\* \_\_GST\_PAD\_TEMPLATE\_H\_\_ \*/

/\*

\* Check: a unit test framework for C

\* Copyright (C) 2001,2002 Arien Malec

\*

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\* 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 {
 TFun fn;
 int loop\_start;
 int loop\_end;
 const char \*name;

int signal; unsigned char allowed\_exit\_value; } TF;

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

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

struct TCase {
 const char \*name;
 int timeout;
 List \*tflst; /\* list of test functions \*/
 List \*unch\_sflst;
 List \*unch\_tflst;
 List \*ch\_sflst;
 List \*ch\_tflst;
};

typedef struct TestStats {
 int n\_checked;
 int n\_failed;
 int n\_errors;
} TestStats;

```
struct TestResult {
  enum test_result rtype; /* Type of result */
  enum ck_result_ctx ctx; /* When the result occurred */
  char *file; /* File where the test 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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* 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\_DEBUG\_CATEGORY\_STATIC (gst\_capsfilter\_debug);

GST\_STATIC\_CAPS\_ANY);

#define GST\_CAT\_DEFAULT gst\_capsfilter\_debug

#define \_do\_init(bla) \

GST\_DEBUG\_CATEGORY\_INIT (gst\_capsfilter\_debug, "capsfilter", 0, \
"capsfilter element");

GST\_BOILERPLATE\_FULL (GstCapsFilter, gst\_capsfilter, GstBaseTransform, GST\_TYPE\_BASE\_TRANSFORM, \_do\_init);

static void gst\_capsfilter\_set\_property (GObject \* object, guint prop\_id, const GValue \* value, GParamSpec \* pspec); static void gst\_capsfilter\_get\_property (GObject \* object, guint prop\_id, GValue \* value, GParamSpec \* pspec); static void gst\_capsfilter\_dispose (GObject \* object);

static GstCaps \*gst\_capsfilter\_transform\_caps (GstBaseTransform \* base, GstPadDirection direction, GstCaps \* caps); static gboolean gst\_capsfilter\_accept\_caps (GstBaseTransform \* base, GstPadDirection direction, GstCaps \* caps); static GstFlowReturn gst\_capsfilter\_transform\_ip (GstBaseTransform \* base, GstBuffer \* buf); static GstFlowReturn gst\_capsfilter\_prepare\_buf (GstBaseTransform \* trans, GstBuffer \* input, gint size, GstCaps \* caps, GstBuffer \*\* buf);

static void
gst\_capsfilter\_base\_init (gpointer g\_class)
{
GstElementClass \*gstelement class = GST ELEMENT CLASS (g class);

gst\_element\_class\_set\_details\_simple (gstelement\_class,

"CapsFilter",

"Generic",

"Pass data without modification, limiting formats",

"David Schleef <ds@schleef.org>");

 $gst\_element\_class\_add\_pad\_template\ (gstelement\_class,$ 

gst\_static\_pad\_template\_get (&srctemplate));

 $gst\_element\_class\_add\_pad\_template\ (gstelement\_class,$ 

```
gst_static_pad_template_get (&sinktemplate));
```

```
}
```

static void
gst\_capsfilter\_class\_init (GstCapsFilterClass \* klass)
{
GObjectClass \*gobject\_class;
GstBaseTransformClass \*trans\_class;

gobject\_class = G\_OBJECT\_CLASS (klass);

```
gobject_class->set_property = gst_capsfilter_set_property;
gobject_class->get_property = gst_capsfilter_get_property;
gobject_class->dispose = gst_capsfilter_dispose;
```

```
g_object_class_install_property (gobject_class, PROP_FILTER_CAPS,
  g_param_spec_boxed ("caps", _("Filter caps"),
     ("Restrict the possible allowed capabilities (NULL means ANY)."
       "Setting this property takes a reference to the supplied GstCaps "
       "object."), GST_TYPE_CAPS,
     G PARAM READWRITE | G PARAM STATIC STRINGS));
trans_class = GST_BASE_TRANSFORM_CLASS (klass);
trans class->transform caps =
  GST_DEBUG_FUNCPTR (gst_capsfilter_transform_caps);
trans_class->transform_ip = GST_DEBUG_FUNCPTR (gst_capsfilter_transform_ip);
trans_class->accept_caps = GST_DEBUG_FUNCPTR (gst_capsfilter_accept_caps);
trans_class->prepare_output_buffer =
  GST DEBUG FUNCPTR (gst capsfilter prepare buf);
}
static void
gst_capsfilter_init (GstCapsFilter * filter, GstCapsFilterClass * g_class)
{
GstBaseTransform *trans = GST BASE TRANSFORM (filter);
gst_base_transform_set_gap_aware (trans, TRUE);
filter->filter_caps = gst_caps_new_any ();
}
static gboolean
copy_func (GQuark field_id, const GValue * value, GstStructure * dest)
{
gst_structure_id_set_value (dest, field_id, value);
return TRUE;
}
static void
gst_capsfilter_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
{
GstCapsFilter *capsfilter = GST_CAPSFILTER (object);
switch (prop_id) {
 case PROP_FILTER_CAPS:{
  GstCaps *new_caps;
  GstCaps *old_caps, *suggest, *nego;
  const GstCaps *new_caps_val = gst_value_get_caps (value);
```

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

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

```
gst_caps_unref (old_caps);
```

GST\_DEBUG\_OBJECT (capsfilter, "set new caps %" GST\_PTR\_FORMAT, new\_caps);

```
/* filter the currently negotiated format against the new caps */
GST OBJECT LOCK (GST BASE TRANSFORM SINK PAD (object));
nego = GST_PAD_CAPS (GST_BASE_TRANSFORM_SINK_PAD (object));
if (nego) {
 GST DEBUG OBJECT (capsfilter, "we had negotiated caps %" GST PTR FORMAT,
   nego);
 if (G UNLIKELY (gst caps is any (new caps))) {
  GST_DEBUG_OBJECT (capsfilter, "not settings any suggestion");
  suggest = NULL;
 } else {
  GstStructure *s1, *s2;
  /* first check if the name is the same */
  s1 = gst_caps_get_structure (nego, 0);
  s2 = gst_caps_get_structure (new_caps, 0);
  if (gst_structure_get_name_id (s1) == gst_structure_get_name_id (s2)) {
   /* same name, copy all fields from the new caps into the previously
    * negotiated caps */
   suggest = gst_caps_copy (nego);
   s1 = gst_caps_get_structure (suggest, 0);
   gst_structure_foreach (s2, (GstStructureForeachFunc) copy_func, s1);
   GST_DEBUG_OBJECT (capsfilter, "copied structure fields");
  } else {
   GST_DEBUG_OBJECT (capsfilter, "different structure names");
   /* different names, we can only suggest the complete caps */
   suggest = gst_caps_copy (new_caps);
  }
 }
```

```
} else {
```

```
GST_DEBUG_OBJECT (capsfilter, "no negotiated caps");
   /* Suggest the new caps, we can't just rely on _get_caps as this may
    * already be called at this point even though no buffer has been
    * pushed yet */
   suggest = gst_caps_copy (new_caps);
  }
  GST OBJECT UNLOCK (GST BASE TRANSFORM SINK PAD (object));
  GST_DEBUG_OBJECT (capsfilter, "suggesting new caps %" GST_PTR_FORMAT,
     suggest);
  gst_base_transform_suggest (GST_BASE_TRANSFORM (object), suggest, 0);
  if (suggest)
   gst_caps_unref (suggest);
  break;
 }
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
}
}
static void
gst_capsfilter_get_property (GObject * object, guint prop_id, GValue * value,
 GParamSpec * pspec)
{
GstCapsFilter *capsfilter = GST_CAPSFILTER (object);
switch (prop_id) {
 case PROP_FILTER_CAPS:
  GST_OBJECT_LOCK (capsfilter);
  gst_value_set_caps (value, capsfilter->filter_caps);
  GST_OBJECT_UNLOCK (capsfilter);
  break;
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
}
}
static void
gst_capsfilter_dispose (GObject * object)
{
GstCapsFilter *filter = GST_CAPSFILTER (object);
gst_caps_replace (&filter->filter_caps, NULL);
```

G\_OBJECT\_CLASS (parent\_class)->dispose (object);

```
}
```

static GstCaps \*
gst\_capsfilter\_transform\_caps (GstBaseTransform \* base,
 GstPadDirection direction, GstCaps \* caps)
{
 GstCapsFilter \*capsfilter = GST\_CAPSFILTER (base);
 GstCaps \*ret, \*filter\_caps;

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

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

```
gst_caps_unref (filter_caps);
```

```
return ret;
```

```
}
```

```
static gboolean
```

```
gst_capsfilter_accept_caps (GstBaseTransform * base,
GstPadDirection direction, GstCaps * caps)
```

```
{
```

```
GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
GstCaps *filter_caps;
gboolean ret;
```

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

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

```
gst_caps_unref (filter_caps);
```

```
return ret;
```

```
static GstFlowReturn
gst_capsfilter_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
    /* No actual work here. It's all done in the prepare output buffer
    * func. */
return GST_FLOW_OK;
}
/* Output buffer preparation... if the buffer has no caps, and
    * our allowed output caps is fixed, then give the caps to the
    * buffer.
    * This ensures that outgoing buffers have caps if we can, so
    * that pipelines like:
    * gst-launch filesrc location=rawsamples.raw !
```

```
* audio/x-raw-int,width=16,depth=16,rate=48000,channels=2,
```

```
* endianness=4321,signed='(boolean)'true ! alsasink
```

```
* will work.
```

```
*/
```

static GstFlowReturn

```
gst_capsfilter_prepare_buf (GstBaseTransform * trans, GstBuffer * input,
```

```
gint size, GstCaps * caps, GstBuffer ** buf)
```

```
{
```

```
GstFlowReturn ret = GST_FLOW_OK;
```

```
if (GST_BUFFER_CAPS (input) != NULL) {
```

```
/* Output buffer already has caps */
```

GST\_LOG\_OBJECT (trans, "Input buffer already has caps (implicitly fixed)");

```
/* FIXME : Move this behaviour to basetransform. The given caps are the ones
```

 $\ast$  of the source pad, therefore our outgoing buffers should always have

```
\ast those caps. \ast/
```

```
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:
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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\_\_ \*/

# 1.12 gstreamer-plugins-bad 0.10.22.1

# 1.12.1 Available under license :

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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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\*/

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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/)			
icecastsend	libshout (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/)				
trm	libmusicbrainz (http://www.musicbrainz.org/)			
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/)			
monoscope None		(Algorithm by Ralph Loader, Joerg Walter,			
Richard Boulton, and Andy Lo A Foe)					
rtjpeg	None (	e (Erik Walthinsen's algorithm)			
rtp	None (http://www.linphone.org/ortp/)				
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/)						
colorspaceles libeolorspace						
dvdec libdv (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/)						
gnomevfs gnome-vfs (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)						
gst_arts aRts (http://arts-project.org/)						
gst1394 libraw1394 (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						
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 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:

ogg	libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)		
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 - license: MIT X11 / X Consortium license					
gsm - license	libgsm MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html				
festival - license:	(http://www.cstr.ed.ac.uk/projects/festival/) http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml				
jpeg - license:	(http://www.ijg.org/) IJG license				
nas - license:	(http://radscan.com/nas.html) NAS license				
snapshot - license:	libpng PNG license	(http://www.libpng.org/pub/png/)			
mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng) - license PNG license					
Plugins usin	g non-free lil	oraries:			
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 libfaad (http://www.audiocoding.com/)
faad's license depends on its major version :

for FAAD1 : it is LGPL
for 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.
- \*/
- /\* 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 ], " \setminus
  "endianness = (int) BYTE_ORDER, " \
```

```
"width = (int) 16, " \
    "depth = (int) 16, " \
    "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 }; */
```

```
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->resample = 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);
    break;
    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>

```
*
```

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- \* 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) \
  (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>

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```
*/
```

/\*

\* 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 <cog/cog.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);
```

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);
  break;
}
}
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);

```
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 (mjpegtools) wrapper
```

- \* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
- \* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>

\*

\* gstmplex.cc: gstreamer mplex wrapper

\*

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\*/

```
/**
```

```
* 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);
 else
  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++;
                   /* audio */
} else {
 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 */
} else {
 /* 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)
{
GstDebugLevel gst\_level;

```
#if GST_MJPEGTOOLS_API >= 10900
static const gint mjpeg_log_error = mjpeg_loglev_t ("error");
static const gint mjpeg_log_warn = mjpeg_loglev_t ("warn");
static const gint mjpeg_log_info = mjpeg_loglev_t ("info");
static const gint mjpeg_log_debug = mjpeg_loglev_t ("debug");
#else
static const gint mjpeg_log_error = LOG_ERROR;
static const gint mjpeg_log_warn = LOG_WARN;
static const gint mjpeg_log_info = LOG_INFO;
static const gint mjpeg_log_debug = LOG_DEBUG;
#endif
```

```
if (level == mjpeg_log_error) {
  gst_level = GST_LEVEL_ERROR;
} else if (level == mjpeg_log_warn) {
  gst_level = GST_LEVEL_WARNING;
} else if (level == mjpeg_log_info) {
  gst_level = GST_LEVEL_INFO;
} else if (level == mjpeg_log_debug) {
  gst_level = GST_LEVEL_DEBUG;
} else {
  gst_level = GST_LEVEL_INFO;
}
```

```
/* message could have a % in it, do not segfault in such case */
gst_debug_log (mplex_debug, gst_level, "", "", 0, NULL, "%s", message);
```

/\* chain up to the old handler;

```
* this could actually be a handler from another mjpegtools based
```

\* gstreamer element; in which case messages can come out double or from

```
\ast the wrong element ... \ast/
```

```
old_handler (level, message);
```

```
}
```

#endif

```
static gboolean
plugin_init (GstPlugin * plugin)
```

{

#ifndef GST\_DISABLE\_GST\_DEBUG

old\_handler = mjpeg\_log\_set\_handler (gst\_mplex\_log\_callback);

g\_assert (old\_handler != NULL);

#endif

/\* in any case, we do not want default handler output \*/

mjpeg\_default\_handler\_verbosity (0);

return gst\_element\_register (plugin, "mplex", GST\_RANK\_NONE, GST\_TYPE\_MPLEX); }

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

\*

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\*/

#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
\*

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```

\*/

```
#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;
byteidx = 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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\*/

#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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```
*/
```

#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\_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 mjpegtools 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
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
*
```

\* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper

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```
*/
```

#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>

\* gstmplexoutputstream.hh: gstreamer/mplex output stream wrapper

\$

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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.
*/
```

```
int
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 \* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net> \* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net> \* gstmplexoutputstream.hh: gstreamer/mplex output stream 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\_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\_\_ \*/

# 1.13 gstreamer-plugins-base 0.10.35.1

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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/)		
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/)		
xine	libxine (http://xinehq.de/)		
xvid	libxvidcore (http://www.xvid.org/)		

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdre	ad (http://www.dtek.chalmers.se/groups/dvd/)		
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)				
rtjpeg	None	(Erik Walthinsen's algorithm)		
rtp	None	(http://www.linphone.org/ortp/)		
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/)			
colorspace	eles libeole	rspace			
dvdec	libdv	(http://libdv.sourceforge.net/)			
esdmon,es	dsink libes	d (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/)			
gnomevfs	gnome	vfs (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)			
gst_arts	aRts	(http://arts-project.org/)			
gst1394	libraw13	(http://www.linux1394.org/)			
gstaf	libaudiofil	e (http://www.68k.org/~michael/audiofile/)			
gstsf	libsndfile	(http://www.mega-nerd.com/libsndfile/)			
hermescol	orspace Her	mes (http://www.clanlib.org/hermes/)			
kio	KDE	(http://www.kde.org/)			
ladspa		(http://www.ladspa.org/)			
lame	libmp3lar	ne (http://lame.sourceforge.net/)			
libvisual	libvisual	(http://libvisual.sourceforge.net/)			
matroska		(http://www.matroska.org/)			
mikmod	libmikr	nod (http://mikmod.raphnet.net/)			
ossaudio		(http://www.opensound.com/)			
qcamsrc					
rfbenc	librfb				
sdlvideosi	nk libsdl	(http://www.libsdl.org/)			
shout2sen	d libshou	t2 (http://www.icecast.org)			
smoothwa	ve				
swfdec		(http://swfdec.sourceforge.net/)			
tarkin		(http://svn.xiph.org/trunk/tarkin/)			
textoverla	y 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/)					

Plugins which use a BSD covered library are as follows:

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

Plugins based on libraries with other free licenses:

ximagesink libXv xvimagesink libXv - license: MIT X11 / X Consortium license				
gsm	libgsm			
- license	- 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	jpeg (http://www.ijg.org/)			
- license:	IJG license			
nas - license:	(htt NAS license	p://radscan.com/nas.html)		
snapshot - license:	libpng PNG license	(http://www.libpng.org/pub/png/)		
mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng) - license PNG license				
Plugins using non-free libraries:				
divxdec, di	vxenc	(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 LGPL				

- for 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.

# 1.14 gstreamer-plugins-good 0.10.30.1

## 1.14.1 Available under license :

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Version 2.1, February 1999

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The plugins which use a GPL library are as follows:

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aasink	aalib	(http://sourceforge.net/projects/aa-project/)	
cdparanoia	libcdparan	oia (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/)	

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/)		
xine	libxine (http://xinehq.de/)		
xvid	libxvidcore (http://www.xvid.org/)		

Plugins derived from GPL code are as follows:

dvdreadsrc	libdvdre	ad (http://www.dtek.chalmers.se/groups/dvd/)			
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)				
rtjpeg	None	(Erik Walthinsen's algorithm)			
rtp	None	(http://www.linphone.org/ortp/)			
synaesthesia		(http://www.logarithmic.net/pfh/synaesthesia)			
system_enc	ode None	(Algorithm by Chrisoph Moar, Wim Tayman's and			
	Er	ik Walthinsen)			
vbidec	None	(Algorithm by Billy Biggs, Doug Bell,			
	Eri	k 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/)			
colorspacel	colorspaceles libeolorspace				
dvdec	libdv	(http://libdv.sourceforge.net/)			
esdmon,esd	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/)			
gnomevfs	gnome-v	fs (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)			
gst_arts	aRts	(http://arts-project.org/)			
gst1394	libraw139	4 (http://www.linux1394.org/)			
gstaf	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	libmp3lam	e (http://lame.sourceforge.net/)			
libvisual	libvisual	(http://libvisual.sourceforge.net/)			
matroska	matroska (http://www.matroska.org/)				
mikmod	libmikm	od (http://mikmod.raphnet.net/)			

ossaudio	(http://www.opensound.com/)
qcamsrc	
rfbenc	librfb
sdlvideosin	k libsdl (http://www.libsdl.org/)
shout2send	libshout2 (http://www.icecast.org)
smoothwav	
swfdec	(http://swfdec.sourceforge.net/)
tarkin	(http://svn.xiph.org/trunk/tarkin/)
textoverlay	
dirac	(http://www.bbc.co.uk/rd/projects/dirac/)
	r ports was relicensed)(http://effectv.sourceforge.net/)
musepack	(http://www.musepack.net/)
пизераск	(http://www.inusepack.net/)
Plugins wh	ich 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/)
speex	(http://www.speex.org/)
flac	libFLAC (http://flac.sourceforge.net/)
Plugins bas	ed on libraries with other free licenses:
ximagesink	libXv
xvimagesin	k 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/mr - license P	ngenc libmng (http://gjuyn.xs4all.nl/libmng) NG license
Plugins usi	ng non-free libraries:
divxdec, di	-
osxaudio	(http://www.apple.com/macosx/)

#### Unsure:

faad libfaad (http://www.audiocoding.com/) faad's license depends on its major version : - for FAAD1 : it is LGPL - for 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=FAAD2

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

/\*

\* GStreamer

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\* Copyright (C) 2006 Stefan Kost <ensonic@users.sf.net>

\*

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\*/

/\*\*

\* 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,"
                                                        1
 " signed=(bool)TRUE,"
                                                 " rate=(int)[1,MAX],"
                                                1
 " 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 -  $\langle$ 

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;
                                                      \
                                                1
while (num_samples--) {
                                                           1
 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;
                                                      \
                                                1
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>");
```

```
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,
1.0,
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
- $\ast$  maximum. The wrap-negative mode pushes those values back from the

```
\ast 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, \text{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;
}
/*
* GStreamer
* Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>
* Copyright (C) 2006 Stefan Kost <ensonic@users.sf.net>
*
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```

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\* 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\_AUDIO\_AMPLIFY\_OET\_CLASS(klass) (G\_TYPE\_INSTANCE\_GET\_CLASS((obj)
,GST\_TYPE\_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;
};

GType gst\_audio\_amplify\_get\_type (void);

G\_END\_DECLS #endif /\* \_\_GST\_AUDIO\_AMPLIFY\_H\_\_ \*/

## 1.15 icu4c 56.1

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# 1.16 jansson 2.7

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# 1.19 json-c/test-driver 0.12

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#### #! /bin/sh

# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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lib/gssapi/mechglue/g\_store\_cred.c lib/gssapi/mechglue/g\_unseal.c lib/gssapi/mechglue/g\_userok.c lib/gssapi/mechglue/g\_utils.c lib/gssapi/mechglue/gssd\_pname\_to\_uid.c lib/gssapi/mechglue/gssd\_pname\_to\_uid.c lib/gssapi/mechglue/mglueP.h lib/gssapi/mechglue/oid\_ops.c lib/gssapi/spnego/gssapiP\_spnego.h lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h kadmin/server/ipropd\_svc.c lib/kdb/iprop.x lib/kdb/kdb\_convert.c lib/kdb/kdb\_log.c lib/kdb/kdb\_log.h lib/krb5/error\_tables/kdb5\_err.et slave/kpropd\_rpc.c slave/kproplog.c

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# 1.22 libcURL 7.54.1

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## 1.23 libcURL 7.42.1

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*/
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1.27 libyuv r1175 :ICS
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;\* Authors: Loren Merritt <lorenm@u.washington.edu>

- ;\* Anton Mitrofanov <BugMaster@narod.ru>
- ;\* Jason Garrett-Glaser <darkshikari@gmail.com>
- ;\* Henrik Gramner <hengar-6@student.ltu.se>
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## 1.29 NSData+Base64 n/a

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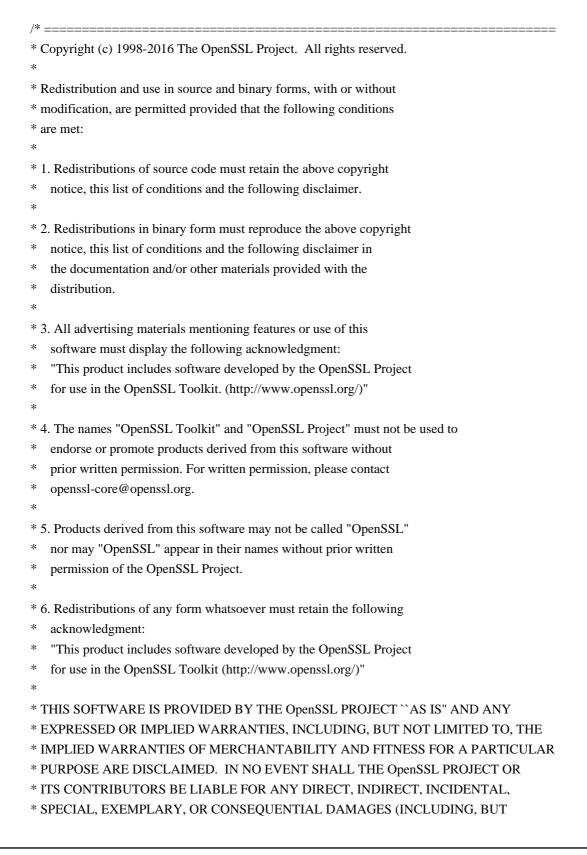
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# 1.34 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
/* crypto/aes/aes_wrap.c */
```

/\* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL

\* project.

- \* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
- \* size keys (Implemented RFC5649)

\*/

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# 1.36 sqlcipher 3.4

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UIView+Toast.h Toast

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# 1.40 unbound 1.4.18

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# 1.41 zlib 1.2.8

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