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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

*  * cvt - IEEE floating point formatting routines.
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1.2 base64.cpp 1.0

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1.3 boost 1.52.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
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Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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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.

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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.

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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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End

1.15 gstreamer 0.10.35.1

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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.)

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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.

C <one line to give the library's name and a brief idea of what it does.>  
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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!
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 FSF lawyers, 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 Fluendo 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.

Can someone distribute the combination of

GStreamer, the LGPL library
MyPlayer, a GPL playback application
The binary-only Sorenson decoder
together in one distribution/operating system? If not, what needs to be changed to make this possible?

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.

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.

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

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

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?

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.

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?
Yes, he can.

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

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

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.

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?

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.

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

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>

$qandaentry$

<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>

$qandaentry$

<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>
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.

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.
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.

*/

/**
 * SECTION:gstpadtemplate
 */

Padtemplates describe the possible media types a pad or an elementfactory can
handle. This allows for both inspection of handled types before loading the
element plugin as well as identifying pads on elements that are not yet
created (request or sometimes pads).

Pad and PadTemplates have #GstCaps attached to it to describe the media type
they are capable of dealing with. gst_pad_template_get_caps() or
GST_PAD_TEMPLATE_CAPS() are used to get the caps of a padtemplate. It's not
possible to modify the caps of a padtemplate after creation.

PadTemplates have a #GstPadPresence property which identifies the lifetime
of the pad and that can be retrieved with GST_PAD_TEMPLATE_PRESENCE(). Also
the direction of the pad can be retrieved from the #GstPadTemplate with
GST_PAD_TEMPLATE_DIRECTION().

The GST_PAD_TEMPLATE_NAME_TEMPLATE () is important for GST_PAD_REQUEST pads
because it has to be used as the name in the gst_element_get_request_pad()
call to instantiate a pad from this template.

Padtemplates can be created with gst_pad_template_new() or with
gst_static_pad_template_get (), which creates a #GstPadTemplate from a
#GstStaticPadTemplate that can be filled with the
convenient GST_STATIC_PAD_TEMPLATE() macro.

A padtemplate can be used to create a pad (see gst_pad_new_from_template() or
gst_pad_new_from_static_template ()) or to add to an element class
(see gst_element_class_add_pad_template ()).

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

<example>
<title>Create a pad from a padtemplate</title>
* GstStaticPadTemplate my_template =
  GST_STATIC_PAD_TEMPLATE (  
  "sink",          // the name of the pad  
  GST_PAD_SINK,    // the direction of the pad  
  GST_PAD_ALWAYS,  // when this pad will be present  
  GST_STATIC_CAPS (   // the capabilities of the padtemplate  
  "audio/x-raw-int,"  
  "channels = (int) [ 1, 6 ]"
  )
);

void
my_method (void)
{
  GstPad *pad:
  pad = gst_pad_new_from_static_template (&my_template, "sink");
  ...
}

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:

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));
}

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 "gstiminfo.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;
    gchar_class = (GObjectClass *) klass;
    GstObjectClass *gstobject_class;

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

    parent_class = g_type_class_peek_parent (klass);

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

gobject_class->dispose = gst_pad_template_dispose;

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

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

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

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

gstobject_class->path_string_separator = "+";
}

static void
gst_pad_template_init (GstPadTemplate * templ)
{
    /* FIXME 0.11: Does anybody remember why this is here? If not, let's
    * change it for 0.11 and let gst_element_class_add_pad_template() for
    * example ref/sink the pad templates.
    */
    /* We ensure that the pad template we're creating has a sunken reference.
    * Inconsistencies in pad templates being floating or sunken has caused
    * problems in the past with leaks, etc.
    *
    * For consistency, then, we only produce them with sunken references
    * owned by the creator of the object
    */
    if (GST_OBJECT_IS_FLOATING (templ)) {
        gst_object_ref_sink (templ);
    }
}

static void
gst_pad_template_dispose (GObject * object)
{
    GstPadTemplate *templ = GST_PAD_TEMPLATE (object);

    g_free (GST_PAD_TEMPLATE_NAME_TEMPLATE (templ));
    if (GST_PAD_TEMPLATE_CAPS (templ)) {
        gst_caps_unref (GST_PAD_TEMPLATE_CAPS (templ));
    }

    G_OBJECT_CLASS (parent_class)->dispose (object);
}
/* ALWAYS padtemplates cannot have conversion specifications (like src_%d),
* since it doesn't make sense.
* SOMETIMES padtemplates can do whatever they want, they are provided by the
* element.
* REQUEST padtemplates can be reverse-parsed (the user asks for 'sink1', the
* 'sink%d' template is automatically selected), so we need to restrict their
* naming.
*/
static gboolean
name_is_valid (const gchar * name, GstPadPresence presence)
{
const gchar *str;
if (presence == GST_PAD_ALWAYS) {
if (strchr (name, '%')) {
g_warning ("invalid name template %s: conversion specifications are not"
" allowed for GST_PAD_ALWAYS padtemplates", name);
return FALSE;
}
} else if (presence == GST_PAD_REQUEST) {
if ((str = strchr (name, '%')) && strchr (str + 1, '%')) {
g_warning ("invalid name template %s: only one conversion specification"
" allowed in GST_PAD_REQUEST padtemplate", name);
return FALSE;
}
if (str && (*(str + 1) != 's' && *(str + 1) != 'd' && *(str + 1) != 'u')) {
g_warning ("invalid name template %s: conversion specification must be of"
" type '%%d', '%%u' or '%%s' for GST_PAD_REQUEST padtemplate", name);
return FALSE;
}
if (str && (*(str + 2) != '\0')) {
g_warning ("invalid name template %s: conversion specification must"
" appear at the end of the GST_PAD_REQUEST padtemplate name", name);
return FALSE;
}
}
return TRUE;
}
GType
gst_static_pad_template_get_type (void)
{
static GType staticpadtemplate_type = 0;
if (G_UNLIKELY (staticpadtemplate_type == 0)) {
staticpadtemplate_type =
g_pointer_type_register_static ("GstStaticPadTemplate");

Open Source Used In Cisco Jabber for Windows 11.8
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/**
 * 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.
 *
 * @return: (transfer full): the #GstCaps of the static pad template.
 */
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())


if (g_value_get_boxed (value) != NULL) {
    GST_PAD_TEMPLATE_CAPS (object) =
    gst_caps_copy (g_value_get_boxed (value));
} else {
    G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
    break;
}
}

static void
gst_pad_template_get_property (GObject * object, guint prop_id, GValue * value,
                               GParamSpec * pspec)
{
    /* these properties are all construct-only */
    switch (prop_id) {
    case PROP_NAME_TEMPLATE:
        g_value_set_string (value, GST_PAD_TEMPLATE_NAME_TEMPLATE (object));
        break;
    case PROP_DIRECTION:
        g_value_set_enum (value, GST_PAD_TEMPLATE_DIRECTION (object));
        break;
    case PROP_PRESENCE:
        g_value_set_enum (value, GST_PAD_TEMPLATE_PRESENCE (object));
        break;
    case PROP_CAPS:
        g_value_set_boxed (value, GST_PAD_TEMPLATE_CAPS (object));
        break;
    default:
        G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
        break;
    }
}

/* GStreamer
   * Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
   * 2000 Wim Taymans <wim.taymans@chello.be>
   *
   * gstpadtemplate.h: Header for GstPadTemplate object
   *
   * This library is free software; you can redistribute it and/or
   * modify it under the terms of the GNU Library General Public
   * License as published by the Free Software Foundation; either
   * version 2 of the License, or (at your option) any later version.
   *
   * This library is distributed in the hope that it will be useful,
   * but WITHOUT ANY WARRANTY; without even the implied warranty of
   * Open Source Used In Cisco Jabber for Windows 11.8
   */
/* 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_PAD_TEMPLATE_H__
define __GST_PAD_TEMPLATE_H__

#include <gst/gstconfig.h>
#include <gst/gstobject.h>
#include <gst/gstbuffer.h>
#include <gst/gstcaps.h>
#include <gst/gstevent.h>
#include <gst/gstquery.h>
#include <gst/gsttask.h>

G_BEGIN_DECLS

/* FIXME: this awful circular dependency need to be resolved properly (see pad.h) */
/*typedef struct _GstPadTemplate GstPadTemplate; */
typedef struct _GstPadTemplateClass GstPadTemplateClass;
typedef struct _GstStaticPadTemplate GstStaticPadTemplate;

#define GST_TYPE_STATIC_PAD_TEMPLATE (gst_static_pad_template_get_type ())
#define GST_TYPE_PAD_TEMPLATE (gst_pad_template_get_type ())
#define GST Pad TEMPLATE[obj](obj)(G_TYPE_CHECK_INSTANCE_CAST ((obj),
GST_TYPE_PAD_TEMPLATE,GstPadTemplate))
#define GST Pad TEMPLATE CLASS [class](klass)(G_TYPE_CHECK CLASS_CAST ((klass),
GST_TYPE_PAD TEMPLATE,GstPadTemplateClass))
#define GST IS Pad TEMPLATE obj)(obj)(G_TYPE_CHECK INSTANCE_TYPE ((obj),
GST_TYPE_PAD TEMPLATE))
#define GST IS Pad TEMPLATE CLASS [class](klass) (G_TYPE CHECK CLASS TYPE ((klass),
GST_TYPE_PAD TEMPLATE))

/**
 * GstPadPresence:
 * @GST Pad ALWAYS: the pad is always available
 * @GST Pad SOME TIMES: 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().
 *
typedef enum {
    GST_PAD_ALWAYS,
    GST_PAD_SOMETIMES,
    GST_PAD_REQUEST
} GstPadPresence;

#define GST_PAD_TEMPLATE_NAME_TEMPLATE(templ)((GstPadTemplate *)(templ))->name_template)

#define GST_PAD_TEMPLATE_DIRECTION(templ)((GstPadTemplate *)(templ))->direction)

#define GST_PAD_TEMPLATE_PRESENCE(templ)((GstPadTemplate *)(templ))->presence)

#define GST_PAD_TEMPLATE_CAPS(templ)((GstPadTemplate *)(templ))->caps)

typedef enum { 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
} GstPadTemplateFlags:
/* FIXME0.11: this is not used and the purpose is unclear */
GST_PAD_TEMPLATE_FIXED  = (GST_OBJECT_FLAG_LAST << 0),
/* padding */
GST_PAD_TEMPLATE_FLAG_LAST = (GST_OBJECT_FLAG_LAST << 4)
}

/**
 * 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;
    Gscaps   *caps;

gpointer _gst_reserved[GST_PADDING];
};

struct _GstPadTemplateClass {
    GstObjectClass  parent_class;

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

gpointer _gst_reserved[GST_PADDING];
};

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

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

/* templates and factories */
GType gst_pad_template_get_type(void);
GType gst_static_pad_template_get_type(void);
GstPadTemplate *gst_pad_template_new(const gchar *name_template,
    GstPadDirection direction, GstPadPresence presence,
    GstCaps *caps) G_GNUC_MALLOC;
GstPadTemplate *gst_static_pad_template_get (GstStaticPadTemplate *pad_template);
GstCaps *gst_static_pad_template_get_caps (GstStaticPadTemplate *templ);
GstCaps *gst_pad_template_get_caps (GstPadTemplate *templ);
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
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*
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* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/

#ifndef CHECK_IMPL_H
#define CHECK_IMPL_H

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

typedef struct TF {
 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 */
}
typedef struct TestStats {
    int n_checked;
    int n_failed;
    int n_errors;
} TestStats;

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

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

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>
*/

#include "config.h"
#endif
#include ".../gst/gst-i18n-lib.h"
#include "gscapsfilter.h"

enum {
    PROP_0,
    PROP_FILTER_CAPS
};

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

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

GST_DEBUG_CATEGORY_STATIC (gst_capsfilter_debug);
#define GST_CAT_DEFAULT gst_capsfilter_debug

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

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

static void gst_capsfilter_set_property (GObject * object, guint prop_id, 
    const GValue * value, GParamSpec * pspec);
static void gst_capsfilter_get_property (GObject * object, guint prop_id, 
    GValue * value, GParamSpec * pspec);
static void gst_capsfilter_dispose (GObject * object);
static GstCaps *gst_capsfilter_transform_caps (GstBaseTransform * base, 
    GstPadDirection direction, GstCaps * caps);
static gboolean gst_capsfilter_accept_caps (GstBaseTransform * base,
GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_capsfilter_transform_ip (GstBaseTransform * base,
GstBuffer * buf);
static GstFlowReturn gst_capsfilter_prepare_buf (GstBaseTransform * trans,
GstBuffer * input, gint size, GstCaps * caps, GstBuffer ** buf);

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

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

static void
gst_capsfilter_class_init (GstCapsFilterClass * klass)
{
GObjectClass *gobject_class;
GstBaseTransformClass *trans_class;
gobject_class = G_OBJECT_CLASS (klass);
gobject_class->set_property = gst_capsfilter_set_property;
gobject_class->get_property = gst_capsfilter_get_property;
gobject_class->dispose = gst_capsfilter_dispose;

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));
        negotiable = GST_PAD_CAPS (GST_BASE_TRANSFORM_SINK_PAD (object));
        GST_OBJECT_UNLOCK (GST_BASE_TRANSFORM_SINK_PAD (object));

    GST_DEBUG_OBJECT (capsfilter, "set new caps %" GST_PTR_FORMAT, new_caps);
}
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
static GstFlowReturn
gst_capsfilter_prepare_buf (GstBaseTransform * trans, GstBuffer * input,
    gint size, GstCaps * caps, GstBuffer ** buf)
{
    GstFlowReturn ret = GST_FLOW_OK;

    if (GST_BUFFER_CAPS (input) != NULL) {
        /* Output buffer already has caps */
        GST_LOG_OBJECT (trans, "Input buffer already has caps (implicitly fixed)");
        /* FIXME : Move this behaviour to basetransform. The given caps are the ones
        * of the source pad, therefore our outgoing buffers should always have
        * those caps. */
        if (GST_BUFFER_CAPS (input) != caps) {
            /* caps are different, make a metadata writable output buffer to set
            * caps */
            if (gst_buffer_is_metadata_writable (input)) {
                /* input is writable, just set caps and use this as the output */
                *buf = input;
                gst_buffer_set_caps (*buf, caps);
                gst_buffer_ref (input);
            } else {
                GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
                *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
                gst_buffer_set_caps (*buf, caps);
            }
        } else {
            /* caps are right, just use a ref of the input as the outbuf */
            *buf = input;
            gst_buffer_ref (input);
        }
    } else {
        /* Buffer has no caps. See if the output pad only supports fixed caps */
        GstCaps *out_caps;

        out_caps = GST_PAD_CAPS (trans->srcpad);

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

        out_caps = gst_caps_make_writable (out_caps);
        gst_caps_do_simplify (out_caps);
    }
if (gst_caps_is_fixed (out_caps) && !gst_caps_is_empty (out_caps)) {
    GST_DEBUG_OBJECT (trans, "Have fixed output caps %
    GST_PTR_FORMAT " to apply to buffer with no caps", out_caps);
    if (gst_buffer_is_metadata_writable (input)) {
        gst_buffer_ref (input);
        *buf = input;
    } else {
        GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
        *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
    }
    GST_BUFFER_CAPS (*buf) = out_caps;
    if (GST_PAD_CAPS (trans->srcpad) == NULL)
        gst_pad_set_caps (trans->srcpad, out_caps);
    else {
        gchar *caps_str = gst_caps_to_string (out_caps);
        GST_DEBUG_OBJECT (trans, "Cannot choose caps. Have unfixed output caps %
        GST_PTR_FORMAT, out_caps);
        gst_caps_unref (out_caps);
        ret = GST_FLOW_ERROR;
        GST_ELEMENT_ERROR (trans, STREAM, FORMAT,
            ("Filter caps do not completely specify the output format"),
            ("Output caps are unfixed: %s", caps_str));
        g_free (caps_str);
    }
}

return ret;
}
/* GStreamer
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*                    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
1.16 gstreamer-plugins-bad 0.10.22.1

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Version 2, June 1991

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

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

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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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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.

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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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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.

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 * Boston, MA 02111-1307, USA.
 */

Disclaimer: The GStreamer team makes a real effort to make sure that the information in this file is as up-to-date and accurate as possible. However, this file may contain errors and omissions. Some dependant libraries change their licensing from version-to-version and some of the libraries listed here as LGPL were under the GPL license in older releases. Distributions which include GStreamer are responsible for ensuring that plugins are used in accordance with licensing terms and other laws.

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:
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 (Erik Walthinsen's algorithm)
rtp None (http://www.linphone.org/ortp/)
synaesthesia (http://www.logarithmic.net/pfh/synaesthesia)
system_encode None (Algorithm by Chrisop 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 alsar (http://alsa-project.org/)
artsdsink aRts (http://arts-project.org/)
cacasink libcaca (http://sam.zoy.org/projects/libcaca/)
colorspacelcs libcolorsapce
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 fffmpeg (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/)
hermescolorsapce 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/)
matrospk                      (http://www.matroska.org/)
mikmod         libmikmod (http://mikmod.raphnet.net/)
ossaudio                     (http://www.opensound.com/)
qcamsrc
rfbenc          librfb
sdvvideosink   libsdll (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   libgsm
                - license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

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

jpeg      (http://www.ijg.org/)
                - license: IJG license

nas            (http://radscan.com/nas.html)
                - license: NAS license
snapshot libpng (http://www.libpng.org/pub/png/)
- license: PNG license

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

Plugins using non-free libraries:
divxdec, divxenc (http://www.divx.com/)
osxaudio (http://www.apple.com/macosx/)
sunaudiosink (http://www.sun.com/)

Unsure:

faad libfaad (http://www.audiocoding.com/)
faad's license depends on its major version:
- for FAAD1: it is LGPL
- for FAAD2: it is GPL
look at these pages for more information on licenses:

by default, GStreamer faad plugin would compile against FAAD2 if available.
it falls back to FAAD1 if not.
/* GSTreamer
 * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
 * Copyright (C) 2003,2004 David A. Schleef <ds@schleef.org>
 *
 * 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.
 */
/* Element-Checklist-Version: 5 */

#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <string.h>
#include <math.h>

/*#define DEBUG_ENABLED */
#include "gstaudioresample.h"
#include <gst/audio/audio.h>

GST_DEBUG_CATEGORY_STATIC (audioresample_debug);
#define GST_CAT_DEFAULT audioresample_debug

/* Audioresample signals and args */
enum
{
  /* FILL ME */
LAST_SIGNAL
};

enum
{
  ARG_0,
  ARG_FILTERLEN
};

#define SUPPORTED_CAPS
GST_STATIC_CAPS (\  
  "audio/x-raw-int, " \  
  "rate = (int) [ 1, MAX ], " \  
  "channels = (int) [ 1, MAX ], " \  
  "endianness = (int) BYTE_ORDER, " \  
  "width = (int) 16, " \  
  "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 }; */

GType audioresample_get_type (void)
{
    static GType audioresample_type = 0;

    if (!audioresample_type)
    {
        static const GTypeInfo audioresample_info = {
            sizeof (AudioresampleClass),
            gst_audioresample_base_init,
            NULL,
            (GClassInitFunc) gst_audioresample_class_init,
            NULL,
            NULL,
            sizeof (Audioresample), 0,
            (GInstanceInitFunc) gst_audioresample_init,
        };

        audioresample_type =
            g_type_register_static (GST_TYPE_ELEMENT, "Audioresample",
                &audioresample_info, 0);
    }
    return audioresample_type;
}

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

    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&gst_audioresample_src_template));
    gst_element_class_add_pad_template (gstelement_class,
        gst_static_pad_template_get (&gst_audioresample_sink_template));
gst_element_class_set_details_simple (gstelement_class, "Audio scaler",
  "Filter/Converter/Audio",
  "Resample audio", "David Schleef <ds@schleef.org>");
}

static void gst_audioresample_class_init (AudioresampleClass * klass)
{
  GObjectClass *gobject_class;
  GstElementClass *gstelement_class;

gobject_class = (GObjectClass *) klass;
  gstelement_class = (GstElementClass *) klass;

gobject_class->set_property = gst_audioresample_set_property;
gobject_class->get_property = gst_audioresample_get_property;
gobject_class->dispose = gst_audioresample_dispose;

  g_object_class_install_property (G_OBJECT_CLASS (klass), ARG_FILTERLEN,
    g_param_spec_int (“filter-length”, “filter_length”, “filter_length”,
      0, G_MAXINT, 16,
      G_PARAM_READWRITE | G_PARAM_CONSTRUCT | G_PARAM_STATIC_STRINGS));

  parent_class = g_type_class_peek_parent (klass);

  GST_DEBUG_CATEGORY_INIT (audioresample_debug, “audioresample”, 0,
    “audioresample element”);
}

static void gst_audioresample_expand_caps (GstCaps * caps)
{
  gint i;

  for (i = 0; i < gst_caps_get_size (caps); i++) {
    GstStructure *structure = gst_caps_get_structure (caps, i);
    const GValue *value;

    value = gst_structure_get_value (structure, "rate");
    if (value == NULL) {
      GST_ERROR (“caps structure doesn’t have required rate field”);
      return;
    }

    gst_structure_set (structure, "rate", GST_TYPE_INT_RANGE, 1, G_MAXINT, 0);
  }
}

static GstCaps *gst_audioresample_getcaps (GstPad * pad)
Audioresample *audioresample;
GstCaps *caps;
GstPad *otherpad;

audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad : audioresample->srcpad;
caps = gst_pad_get_allowed_caps (otherpad);

gst_audioresample_expand_caps (caps);

return caps;
}

static GstCaps *gst_audioresample_fixate (GstPad * pad, const GstCaps * caps)
{
Audioresample *audioresample;
GstPad *otherpad;
int rate;
GstCaps *copy;
GstStructure *structure;

audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

if (pad == audioresample->srcpad) {
    otherpad = audioresample->sinkpad;
    rate = audioresample->i_rate;
} else {
    otherpad = audioresample->srcpad;
    rate = audioresample->o_rate;
}
if (!GST_PAD_IS_NEGOTIATING (otherpad))
    return NULL;
if (gst_caps_get_size (caps) > 1)
    return NULL;

copy = gst_caps_copy (caps);
structure = gst_caps_get_structure (copy, 0);
if (rate) {
    if (gst_structure_fixate_field_nearest_int (structure, "rate", rate)) {
        return copy;
    }
}

gst_caps_free (copy);
return NULL;
static GstPadLinkReturn gst_audioresample_link (GstPad * pad, 
   const GstCaps * caps)
{
    Audioresample *audioresample;
    GstStructure *structure;
    int rate;
    int channels;
    gboolean ret;
    GstPad *otherpad;

    audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));

    otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
             audioresample->srcpad;

    structure = gst_caps_get_structure (caps, 0);
    ret = gst_structure_get_int (structure, "rate", &rate);
    ret &= gst_structure_get_int (structure, "channels", &channels);
    if (!ret)
    {
      return GST_PAD_LINK_REFUSED;
    }
    if (gst_pad_is_negotiated (otherpad))
    {
      GstCaps *othercaps = gst_caps_copy (caps);
      int otherrate;
      GstPadLinkReturn linkret;

      if (pad == audioresample->srcpad) {
        otherrate = audioresample->i_rate;
      } else {
        otherrate = audioresample->o_rate;
      }
      gst_caps_set_simple (othercaps, "rate", G_TYPE_INT, otherrate, NULL);
      linkret = gst_pad_try_set_caps (otherpad, othercaps);
      if (GST_PAD_LINK_FAILED (linkret)) {
        return GST_PAD_LINK_REFUSED;
      }
    }
    audioresample->channels = channels;
    resample_set_n_channels (audioresample->resample, audioresample->channels);
    if (pad == audioresample->srcpad) {
      audioresample->o_rate = rate;
    }
resample_set_output_rate (audioresample->resample, audioresample->o_rate);
GST_DEBUG ("set o_rate to %d", rate);
} else {
audioresample->i_rate = rate;
resample_set_input_rate (audioresample->resample, audioresample->i_rate);
GST_DEBUG ("set i_rate to %d", rate);
}

return GST_PAD_LINK_OK;
}

static void gst_audioresample_init (Audioresample * audioresample)
{
ResampleState *r;

audioresample->sinkpad =
   gst_pad_new_from_static_template (&gst_audioresample_sink_template, "sink");
gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->sinkpad);
gst_pad_set_chain_function (audioresample->sinkpad, gst_audioresample_chain);
gst_pad_set_link_function (audioresample->sinkpad, gst_audioresample_link);
gst_pad_set_getcaps_function (audioresample->sinkpad,
   gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->sinkpad,
   gst_audioresample_fixate);

audioresample->srcpad =
   gst_pad_new_from_static_template (&gst_audioresample_src_template, "src");
gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->srcpad);
gst_pad_set_link_function (audioresample->srcpad, gst_audioresample_link);
gst_pad_set_getcaps_function (audioresample->srcpad,
   gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->srcpad, gst_audioresample_fixate);

r = resample_new ();
audioresample->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);
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>
 * *
 * This library is free software; you can redistribute it and/or
 * modify it under the terms of the GNU Library General Public
 * License as published by the Free Software Foundation; either
 * version 2 of the License, or (at your option) any later version.
 * *
 * This library is distributed in the hope that it will be useful,
 * but WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
 * Library General Public License for more details.
 * *
 * You should have received a copy of the GNU Library General Public
 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifndef __AUDIORESAMPLE_H__
#define __AUDIORESAMPLE_H__

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> */
/* */
/* This library is free software; you can redistribute it and/or */
/* modify it under the terms of the GNU Library General Public */
/* License as published by the Free Software Foundation; either */
/* version 2 of the License, or (at your option) any later version. */
/* */
/* This library is distributed in the hope that it will be useful, */
/* but WITHOUT ANY WARRANTY; without even the implied warranty of */
/* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU */
/* Library General Public License for more details. */
/* */
/* You should have received a copy of the GNU Library General Public */
/* License along with this library; if not, write to the */
/* Free Software Foundation, Inc., 59 Temple Place - Suite 330, */
/* Boston, MA 02111-1307, USA. */
/* */
/* */
/* This file was (probably) generated from */
/* gstvideotemplate.c,v 1.18 2005/11/14 02:13:34 thomasvs Exp */
/* and */
/* $Id: make_filter,v 1.8 2004/04/19 22:51:57 ds Exp $ */
/* */
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/video/video.h>
#include <string.h>
#include <cog/cog.h>
#include <math.h>
#include <cog/cogvirtframe.h>

#define GST_TYPE_COGDOWNSAMPLE
(gst_cogdownsample_get_type())
#define GST_COGDOWNSAMPLE(obj)
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_COGDOWNSAMPLE,GstCogdownsample))
#define GST_COGDOWNSAMPLE_CLASS(klass)
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_COGDOWNSAMPLE,GstCogdownsampleClass))
#define GST_IS_COGDOWNSAMPLE(obj)
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_COGDOWNSAMPLE))
#define GST_IS_COGDOWNSAMPLE_CLASS(obj)

typedef struct _GstCogdownsample GstCogdownsample;
typedef struct _GstCogdownsampleClass GstCogdownsampleClass;

struct _GstCogdownsample
{
    GstBaseTransform base_transform;
};

struct _GstCogdownsampleClass
{
    GstBaseTransformClass parent_class;
};

GType gst_cogdownsample_get_type (void);

enum
{
    ARG_0
};

static void gst_cogdownsample_base_init (gpointer g_class);
static void gst_cogdownsample_class_init (gpointer g_class,
                                           gpointer class_data);
static void gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class);
static void gst_cogdownsample_set_property (GObject * object, guint prop_id,
                                            const GValue * value, GParamSpec * pspec);
static void gst_cogdownsample_get_property (GObject * object, guint prop_id,
                                            GValue * value, GParamSpec * pspec);

static GstCaps *gst_cogdownsample_transform_caps (GstBaseTransform * base_transform, GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_cogdownsample_transform (GstBaseTransform * base_transform, GstBuffer * inbuf, GstBuffer * outbuf);
static gboolean gst_cogdownsample_get_unit_size (GstBaseTransform * base_transform, GstCaps * caps, guint * size);

static GstStaticPadTemplate gst_cogdownsample_sink_template =
GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }")));

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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;
    guint32_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 ('T', '4', '2', '0'):
    break;

case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
    *size = width * height * 3 / 2;
    break;

case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
    *size = width * height * 2;
    break;

case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
    *size = width * height * 4;
    break;
default:
    g_assert_not_reached();
}

return TRUE;
}

static GstFlowReturn
gst_cogdownsample_transform (GstBaseTransform * base_transform,
    GstBuffer * inbuf, GstBuffer * outbuf)
{
    GstCogdownsample *compress;
    CogFrame *outframe;
    int width, height;
    uint32_t format;
    CogFrame *frame;

    g_return_val_if_fail (GST_IS_COGDOWNSAMPLE (base_transform), GST_FLOW_ERROR);
    compress = GST_COGDOWNSAMPLE (base_transform);

    gst_structure_get_fourcc (gst_caps_get_structure (inbuf->caps, 0),
        "format", &format);
    gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
        "width", &width);
    gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
        "height", &height);

    switch (format) {
    case GST_MAKE_FOURCC ('T', '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;
}

/* GSTstreamer mplex (mjpegtools) wrapper
 * (c) 2003 Ronald Bultje <bultje@ronald.bitfreak.net>
 * (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
 *
 * gstmplex.cc: gstreamer mplex wrapper
 *
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 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

/**
 * SECTION: element-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>
 * ||
 * <para>
 * 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.
/*
 * define HAVE_CONFIG_H
 * include "config.h"
 */

#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 ], " \n    "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 "; "
    );

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"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 gbooleangst_mplex_get_property (GObject * object,
    guint prop_id, GValue * value, GParamSpec * pspec);
static voidgst_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>\n");

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;
    gchar *mime;
    GstStructure *structure;
    StreamKind type;
    JobStream *jobstream;
    GstMplexIBitStream *inputstream;
    GstMplexPad *mpad;
    GstCaps *othercaps;
    gboolean ret = TRUE;

    g_return_val_if_error (

    /* ... */
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++;
} else { /* audio */
    if (!strcmp (mime, "audio/mpeg")) {
        type = MPEG_AUDIO;
    } else if (!strcmp (mime, "audio/x-ac3")) {
        type = AC3_AUDIO;
    } else if (!strcmp (mime, "audio/x-dts")) {
        type = DTS_AUDIO;
    } else if (!strcmp (mime, "audio/x-raw-int")) {
        LpcmParams *params;
gint bits, chans, rate;
gboolean result = TRUE;

/* 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);
        }
    }

    /* if not well and truly eos, something strange happened */
}
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_ERROR_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;
}
#endif GST_DISABLE_GST_DEBUG

static mjpegl_log_handler_t old_handler = NULL;

/* note that this will affect all mjpegt tools 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 mjpegl_log_error = mjpegl_loglev_t ("error");
    static const gint mjpegl_log_warn = mjpegl_loglev_t ("warn");
    static const gint mjpegl_log_info = mjpegl_loglev_t ("info");
    static const gint mjpegl_log_debug = mjpegl_loglev_t ("debug");
#else
    static const gint mjpegl_log_error = LOG_ERROR;
    static const gint mjpegl_log_warn = LOG_WARN;
#endif
static const gint mjpeg_log_error = LOG_INFO;
static const gint mjpeg_log_warn = LOG_WARNING;
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
 * the wrong element ... */
old_handler (level, message);
#ifend
static gboolean
plugin_init (GstPlugin * plugin)
{
#ifdef 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

#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))
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#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 *lock;
/\* 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

#ifndef __GST_MPLEX_H__

#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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* Boston, MA 02111-1307, USA.
*/

#ifndef 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);
    }

    GST_MPLEX_MUTEX_UNLOCK (mplex);
    GST_MPLEX_SIGNAL (mplex, mpad);
    GST_MPLEX_WAIT (mplex, mpad);
}
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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 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#ifndef __GST_MPLEXIBITSTREAM_H__
#define __GST_MPLEXIBITSTREAM_H__

#include <gst/gst.h>
#include <mjpeg_types.h>
#include <bits.hpp>

#include "gstmplex.hh"

/* forward declaration; break circular referencing */
typedef struct _GstMplex GstMplex;
typedef struct _GstMplexPad GstMplexPad;

class GstMplexIBitStream : public IBitStream {
    public:
        GstMplexIBitStream (GstMplexPad *pad, guint buf_size = BUFFER_SIZE);
        bool ReadBuffer (){

    protected:
        /* read data */
        size_t ReadStreamBytes (uint8_t* buf, size_t number);

    /* are we at EOS? */
        bool EndOfStream (void);

    private:
        GstMplex *mplex;
        GstMplexPad *mpad;
        gboolean eos;
    }

#endif /* __GST_MPLEXIBITSTREAM_H__ */

/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
*  
gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
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* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA. */
enum
{
    ARG_0,
    ARG_FORMAT,
    ARG_MUX_BITRATE,
    ARG_VBR,
    ARG_SYSTEM_HEADERS,
    ARG_SPLIT_SEQUENCE,
    ARG_SEGMENT_SIZE,
    ARG_PACKETS_PER_PACK,
    ARG_SECTOR_SIZE,
    ARG_BUFSIZE
    /* FILL ME */
};

/*
 * Property enumeration types.
 */

#define GST_TYPE_MPLEX_FORMAT
(gst_mplex_format_get_type ())

static GType
gst_mplex_format_get_type (void)
{
    static GType mplex_format_type = 0;

    if (!mplex_format_type) {
        static const GEnumValue mplex_formats[] = {
            {0, "Generic MPEG-1", "0"},
            {1, "Standard VCD", "1"},
            {2, "User VCD", "2"},
            {3, "Generic MPEG-2", "3"},
            {4, "Standard SVCD", "4"},
            {5, "User SVCD", "5"},
            {6, "VCD Stills sequences", "6"},
            {7, "SVCD Stills sequences", "7"},
            {8, "DVD MPEG-2 for dvdauthor", "8"},
            {9, "DVD MPEG-2", "9"},
            {0, NULL, NULL},
        };

mplex_format_type =
    g_enum_register_static ("GstMplexFormat", mplex_formats);
}

return mplex_format_type;
}

/*
 * Class init functions.
 */

GstMplexJob::GstMplexJob (void):
    MultiplexJob ()
    {
        /* blabla */
        bufsize = 0;
    }

    /* GObject properties. */
    
    void
    GstMplexJob::initProperties (GObjectClass * klass)
    {
        /* encoding profile */
        g_object_class_install_property (klass, ARG_FORMAT,
            g_param_spec_enum ("format", "Format", "Encoding profile format",
                GST_TYPE_MPLEX_FORMAT, 0,
                (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));

        /* total stream data rate. 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)));

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/* 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)));

/* 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)));

/* 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 mjpegt tools 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;
}
#define __GST_MPLEXJOB_H__

#include <glib-object.h>
#include <interact.hpp>

class GstMplexJob : public MultiplexJob {
public:
    GstMplexJob (void);

    /* gobject properties */
    static void initProperties (GObjectClass *klass);

    /* set/get gobject properties */
    void getProperty (guint prop_id, GValue *value);
    void setProperty (guint prop_id, const GValue *value);

    int bufsize;
};

#endif /* __GST_MPLEXJOB_H__ */

/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
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* Boston, MA 02111-1307, USA.
*/

#ifndef 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>
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* Boston, MA 02111-1307, USA.
*/

#ifndef __GST_MPLEXOUTPUTSTREAM_H__
#define __GST_MPLEXOUTPUTSTREAM_H__

#include <gst/gst.h>
#include <mjpeg_types.h>
#include <outputstrm.hpp>

#include "gstplex.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__ */

1.17 gstreamer-plugins-base 0.10.35.1

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- dvrdrdrsrc: libdvdread (http://www.dtek.chalmers.se/groups/dvd/)
- jack: libjack (http://jackit.sourceforge.net/)
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- 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 Chrisop Moar, Wim Tayman's and Erik Walthinsen)
- vbidec: None (Algorithm by Billy Biggs, Doug Bell, Erik Walthinsen and David I. Lehn)

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- alsaha: alsaha (http://alsa-project.org/)
- artsdsink: aRts (http://arts-project.org/)
- cacasinak: libcaca (http://sam.zoy.org/projects/libcaca/)
- colorspacecelcs: libcolorspace
- dvrdec: libdv (http://libdv.sourceforge.net/)
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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/)

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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/)

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ximagesink  libXv
xvimagesink  libXv
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by default, GStreamer faad plugin would compile against FAAD2 if available.
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1.18 gstreamer-plugins-good 0.10.30.1

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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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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
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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d) 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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Ty Coon, President of Vice
That's all there is to it!

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 */

This is a demuxer supporting a subset of the Quicktime video container
format developed by Apple. Apple and others have some patents on
some features of the Quicktime container format in regards to technologies
such as QuicktimeVR and RTP hinting. Due to that be aware that if ever
such features are added to this demuxer it would need to be moved to the
-ugly module or those features need to come as add-in functionality stored in
another module.

As the plugin is as of today's date (19th of June 2007) it does not
violate any software patents we know of.

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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/)
- siddc 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/)
- 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)
Plugins which use a LGPL library are as follows:

- alsaplat (http://alsa-project.org/)
- artsdsink (http://arts-project.org/)
- cacasink (http://sam.zoy.org/projects/libcaca/)
- colorspacelcs (http://libcolorspace.org/)
- dvdec (http://libdv.sourceforge.net/)
- esdmon, esdsink (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
- faac (http://www.audiocoding.com/modules/mydownloads/)
- fameenc (http://fame.sourceforge.net/)
- ffmpeg (http://ffmpeg.sourceforge.net/)
- gdkpixbuf (http://www.gtk.org/)
- gstreamer/arts (http://arts-project.org/)
- gstreamer/1394 (http://www.linux1394.org/)
- gstreamer/audiofile (http://www.68k.org/~michael/audiofile/)
- gstreamer/sndfile (http://www.mega-nerd.com/libsndfile/)
- hermes (http://www.clanlib.org/hermes/)
- kio (http://www.kde.org/)
- ladspa (http://www.ladspa.org/)
- lame (http://lame.sourceforge.net/)
- libvisual (http://libvisual.sourceforge.net/)
- matroska (http://www.matroska.org/)
- mikmod (http://www.mikmod.raphnet.net/)
- ossaudio (http://www.opensound.com/)
- qamsrc
- rfbenc (http://libfb.org/)
- sdlvideosink (http://www.libsdl.org/)
- shout2send (http://www.icecast.org)
- smoothwave
- swfdec (http://swfdec.sourceforge.net/)
- tarkin (http://svn.xiph.org/trunk/tarkin/)
- textoverlay (http://www.pango.org/)
- directx (http://www.bbc.co.uk/rd/projects/directx/)
- effectv (http://effectv.sourceforge.net/)
- musepack (http://www.musepack.net/)

Plugins which use a BSD covered library are as follows:

- ogg (http://ogg.sourceforge.net/)
- vorbis (http://ogg.sourceforge.net/)
- gstreamer/theora (http://www.theora.org/)
- speex (http://speex.org/)
- flac (http://flac.sourceforge.net/)
Plugins based on libraries with other free licenses:

ximagesink       libXv
xvimagesink      libXv
- license:      MIT X11 / X Consortium license

gsm               libgsmsm
- 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.iijg.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/mngenclibmng (http://gjuyn.xs4all.nl/libmng)
- license:      PNG license

Plugins using non-free libraries:

divxdec, divxencences (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:

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

/*
 * GStreamer
 * Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>
 * 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.

Example launch line

```
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
```

#ifndef 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 ("GstAudioAmplifyClippingMethod", values);
}
return gtype;
}

#define ALLOWED_CAPS
\
"audio/x-raw-int,"\
" depth=(int)8,"\
" width=(int)8,"\
" endianness=(int)BYTE_ORDER,"\
" signed=(bool)TRUE,"\
" rate=(int)[1,MAX],"\
" channels=(int)[1,MAX]; "\
"audio/x-raw-int,"\
" depth=(int)16,"\
" width=(int)16,"\
" endianness=(int)BYTE_ORDER,"\
" signed=(bool)TRUE,"\
" rate=(int)[1,MAX],"\
" channels=(int)[1,MAX]; "\
"audio/x-raw-int,"\
" depth=(int)32,"\
" width=(int)32,"\
" endianness=(int)BYTE_ORDER,"\
" signed=(bool)TRUE,"\
" rate=(int)[1,MAX],"\
" channels=(int)[1,MAX]; "\
"audio/x-raw-float,"\
" width=(int){32,64},"\
" endianness=(int)BYTE_ORDER,"\
" rate=(int)[1,MAX],"\
" channels=(int)[1,MAX]"

#define DEBUG_INIT(bla) \
GST_DEBUG_CATEGORY_INIT (gst_audio_amplify_debug, "audioamplify", 0, "audioamplify element");

GST_BOILERPLATE_FULL (GstAudioAmplify, gst_audio_amplify, GstAudioFilter, 
GST_TYPE_AUDIO_FILTER, DEBUG_INIT);

static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint clipping, gint format, gint width);
static void gst_audio_amplify_set_property (GObject * object, guint prop_id, 
const GValue * value, GParamSpec * pspec);
static void gst_audio_amplify_get_property (GObject * object, guint prop_id, 
GValue * value, GParamSpec * pspec);

static gboolean gst_audio_amplify_setup (GstAudioFilter * filter, 
GstRingBufferSpec * format);
static GstFlowReturn gst_audio_amplify_transform_ip (GstBaseTransform * base, 
GstBuffer * buf);

#define MIN_gint8 G_MININT8
#define MAX_gint8 G_MAXINT8
#define MIN_gint16 G_MININT16
#define MAX_gint16 G_MAXINT16
#define MIN_gint32 G_MININT32
#define MAX_gint32 G_MAXINT32

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

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;
}

gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, void * data, guint num_samples)
type *d = data;

while (num_samples--) {
    type val = *d* filter->amplification;
    do {
        if (val > 1.0)
            val = 1.0 - (val - 1.0);
        else if (val < -1.0)
            val = -1.0 + (-1.0 - val);
        else
            break;
    } while (1);
    *d++ = val;
}

static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter, void * data, guint num_samples)
{
    type *d = data;

    while (num_samples--)
        *d++ *= filter->amplification;
}

/* *INDENT-OFF* */
MAKE_INT_FUNCS (gint8,gint)
MAKE_INT_FUNCS (gint16,gint)
MAKE_INT_FUNCS (gint32,gint64)
MAKE_FLOAT_FUNCS (gfloat)
MAKE_FLOAT_FUNCS (gdouble)
/* *INDENT-ON* */

/* GObject vmethod implementations */

static void
gst_audio_amplify_base_init (gpointer klass)
{
    GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
    GstCaps *caps;

gst_element_class_set_details_simple (element_class, "Audio amplifier",
    "Filter/Effect/Audio",
    "Amplifies an audio stream by a given factor",
    "Sebastian Drge <slomo@circular-chaos.org>");

caps = gst_caps_from_string (ALLOWED_CAPS);
gst_audio_filter_class_add_pad_templates (GST_AUDIO_FILTER_CLASS (klass),
caps);
gst_caps_unref (caps);
}

static void
gst_audio_amplify_class_init (GstAudioAmplifyClass * klass)
{
GObjectClass *gobject_class;

gobject_class = (GObjectClass *) klass;
gobject_class->set_property = gst_audio_amplify_set_property;
gobject_class->get_property = gst_audio_amplify_get_property;

G_OBJECT_CLASS (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);

/**
* GstAudioAmplify:clipping-method
* *
* Clipping method: clip mode set values higher than the maximum to the
* maximum. The wrap-negative mode pushes those values back from the
* opposite side, wrap-positive pushes them back from the same side.
* *
**/
G_OBJECT_CLASS (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 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_LINEAR, 32, METHOD_WRAP_POSITIVE,
   gst_audio_amplify_transform_gint32_wrap_positive}, {
GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
   gst_audio_amplify_transform_gint32_noclip}, {
   GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
   gst_audio_amplify_transform_gint32_noclip}, {
   0, 0, 0, NULL} ;
}
const struct process *p;

for (p = process; p->func; p++)
   if (p->format == format && p->width == width && p->clipping == clipping)
      return p->func;
return NULL;
}

static gboolean
gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint
   clipping_method, gint format, gint width)
{
   GstAudioAmplifyProcessFunc process;

   /* set processing function */

   process = gst_audio_amplify_process_function (clipping_method, format, width);
   if (!process) {
      GST_DEBUG("wrong format");
      return FALSE;
   }

   filter->process = process;
   filter->clipping_method = clipping_method;
   filter->format = format;
   filter->width = width;

   return TRUE;
}

static void
gst_audio_amplify_set_property (GOBJECT (object, guint prop_id,
   const GValue * value, GParamSpec * pspec)
{
   GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

   switch (prop_id) {
      case PROP_AMPLIFICATION:
         filter->amplification = g_value_get_float (value);
         gst_base_transform_set_passthrough (GST_BASE_TRANSFORM (filter),
            filter->amplification == 1.0);
         break;
case PROP_CLIPPING_METHOD:
gst_audio_amplify_set_process_function (filter, g_value_get_enum (value),
  filter->format, filter->width);
break;
default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
break;
}
}

static void
gst_audio_amplify_get_property (GObject * object, guint prop_id,
  GValue * value, GParamSpec * pspec)
{
  GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);

  switch (prop_id) {
    case PROP_AMPLIFICATION:
      g_value_set_float (value, filter->amplification);
      break;
    case PROP_CLIPPING_METHOD:
      g_value_set_enum (value, filter->clipping_method);
      break;
    default:
      G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
      break;
  }
}

/* GstAudioFilter vmethod implementations */
static gboolean
gst_audio_amplify_setup (GstAudioFilter * base, GstRingBufferSpec * format)
{
  GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);

  return gst_audio_amplify_set_process_function (filter,
    filter->clipping_method, format->type, format->width);
}

/* GstBaseTransform vmethod implementations */
static GstFlowReturn
gst_audio_amplify_transform_ip (GstBaseTransform * base, GstBuffer * buf)
{
  GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
  guint num_samples;
  GstClockTime timestamp, stream_time;

  timestamp = GST_BUFFER_TIMESTAMP (buf);
stream_time =
gst_segment_to_stream_time (&base->segment, GST_FORMAT_TIME, timestamp);

GST_DEBUG_OBJECT (filter, "sync to %" GST_TIME_FORMAT,
GST_TIME_ARGS (timestamp));

if (GST_CLOCK_TIME_IS_VALID (stream_time))
gst_object_sync_values (G_OBJECT (filter), stream_time);

num_samples =
GST_BUFFER_SIZE (buf) / (GST_AUDIO_FILTER (filter)->format.width / 8);

if (gst_base_transform_is_passthrough (base) ||
G_UNLIKELY (GST_BUFFER_FLAG_IS_SET (buf, GST_BUFFER_FLAG_GAP)))
return GST_FLOW_OK;

filter->process (filter, GST_BUFFER_DATA (buf), num_samples);

return GST_FLOW_OK;
*/

/*
 * GStreamer
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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/gstaudiofilter.h>
G_BEGIN_DECLS
#define GST_TYPE_AUDIO_AMPLIFY (gst_audio_amplify_get_type())
#define GST_AUDIO_AMPLIFY(obj) (G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplify))
#define GST_IS_AUDIO_AMPLIFY(obj) (G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_CLASS(klass)    (G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
#define GST_IS_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_GET_CLASS(obj)  (G_TYPE_INSTANCE_GET_CLASS((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))

typedef struct _GstAudioAmplify GstAudioAmplify;
typedef struct _GstAudioAmplifyClass GstAudioAmplifyClass;
typedef void (*GstAudioAmplifyProcessFunc) (GstAudioAmplify *, void *, guint);

struct _GstAudioAmplify
{
    GstAudioFilter audiofilter;

    gfloat amplification;

    /* < private > */
    GstAudioAmplifyProcessFunc process;
    gint clipping_method;
    gint format;
    gint width;
};

struct _GstAudioAmplifyClass
{
    GstAudioFilterClass parent;
};

GType gst_audio_amplify_get_type (void);

G_END_DECLS
#endif /* __GST_AUDIO_AMPLIFY_H__ */

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(the home page for ispell)

An almost complete rewrite of MySpell for use by
the Mozilla project has been developed by David Einstein
(Deinst@world.std.com). David and I are now
working on parallel development tracks to help
our respective projects (Mozilla and OpenOffice.org
and we will maintain full affix file and dictionary
file compatibility and work on merging our versions
of MySpell back into a single tree. David has been
a significant help in improving MySpell.

Special thanks also go to La'szlo' Ne'meth
<nemethl@gyorsposta.hu> who is the author of the
Hungarian dictionary and who developed and contributed
the code to support compound words in MySpell
and fixed numerous problems with the encoding
* case conversion tables.

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An almost complete rewrite of MySpell for use by
the Mozilla project has been developed by David Einstein
(Deinst@world.std.com). David and I are now
working on parallel development tracks to help
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and we will maintain full affix file and dictionary
file compatibility and work on merging our versions
of MySpell back into a single tree. David has been
a significant help in improving MySpell.

Special thanks also go to La'szlo' Ne'meth
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#
# David Bartlett, Andrew Brown.
# R 1.18, 11/04/05
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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 combine 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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?b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

?c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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?e) 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 materials to be 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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Versión 0.1

SUMARIO

1. AUTOR
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3. INSTALACIÓN
4. COLABORACIÓN
5. AGRADECIMIENTOS

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

4. You may copy and distribute the Library (or a portion or derivative of it) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
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1.27 hunspell-dict-nl-nl 1

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[ENGLISH]
Dutch word list - OpenTaal
Version: 1.00 G
Format: MySpell

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1.30 Hunspell-dict-pt-pt 1

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HISTÓRIA
..............................................................
Versão 20.5.2002
Esta versão é completamente diferente da anterior.
1. Utilizámos a nova versão do ispell para portugues como base do trabalho (o ficheiro affix e o dicionário são novos)
2. Utilizou-se um script de perl para a transformação do ficheiro affix para myspell. Supostamente agora temos menos bugs.
3. Graças à preciosa colaboração de Daniel Andrade (mop12079@mail.telepac.pt), que encontrou - e resolveu - este bug, agora as palavras sugeridas incluem também palavras com caracteres portugeses (çãåàâ, etc...)
4. Para além disso, aproveitam a esta versão todos os bugfixes anteriores.

Versão 16.4.2002
Bugfix - corrigido o bug (pt_PT.aff) que provocava alguns crashes em OpenOffice.org (myspell). O erro devia-se a uma contagem incorrecta de número de sugestões. Arranjado.

Versão 8.4.2002
Bugfix - corrigido o bug (pt_PT.aff) que fazia algumas palavras terminadas em ção serem reconhecidas como erro e sugerida palavra terminada em rão.
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1.31 hunspell-dict-ru-ru 1
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1.32 hunspell-dict-sv-se 1
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If you find a correct Swedish word that is missing from this dictionary, please go to http://dsso.se/ and insert it into the database; then it will be included in the next release of this dictionary.

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1.35 jasper 1.900.1-13
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1.36 json-c 0.12
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1.37 json-c/test-driver 0.12

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```bash
#!/bin/sh
# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

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# This file is maintained in Automake, please report
# bugs to <bug-automake@gnu.org> or send patches to
# <automake-patches@gnu.org>.

# Make unconditional expansion of undefined variables an error. This
# helps a lot in preventing typo-related bugs.

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1.38 jsoncpp 0.6.0-rc2
:22bcfd69bc3ee67473ee96535d5af581

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1.40 jsoncpp 0.6.0 0.6.0

1.41 Kerberos 1.14.3

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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/krb5/kdb/kdb_log.h
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lib/libgss/g_canon_name.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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/g_verify.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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/* The functions here are used during reads to store data from the file */
/* into the info struct, and during writes to store application data */
/* into the info struct for writing into the file. This abstracts the */
/* info struct and allows us to change the structure in the future. */
*/
/* 
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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