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SOFTWARE.
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
>
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,

Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com  
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
 * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
 * Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.2 iconv 2.17
1.2.1 Available under license:

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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1.5 jetty-servlet 9.2.22.v20170606

1.6 jetty-servlets 9.2.13.v20150730

1.7 jackson-module-jaxb-annotations 2.9.6

1.8 flink-mapr-fs 1.9.2
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That's all there is to it!
/*
 * ALSA lisp implementation
 * Copyright (c) 2003 by Jaroslav Kysela <perex@perex.cz>
 *
 * Based on work of Sandro Sigala (slisp-1.2)
 *
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 *
 */

#include <assert.h>
#include <limits.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include <math.h>
#include <err.h>

#define alisp_seq_iterator alisp_object

#include "local.h"
#include "alisp.h"
#include "alisp_local.h"

struct alisp_object alsa_lisp_nil;
struct alisp_object alsa_lisp_t;

/* parser prototypes */
static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken);
static void princ_cons(snd_output_t *out, struct alisp_object * p);
static void princ_object(snd_output_t *out, struct alisp_object * p);
static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p);
/* functions */
static struct alisp_object *F_eval(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_progn(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_funcall(struct alisp_instance *instance, struct alisp_object *);

/* others */
static int alisp_include_file(struct alisp_instance *instance, const char *filename);

/*
 * object handling
 */
static int get_string_hash(const char *s)
{
    int val = 0;
    if (s == NULL)
        return val;
    while (*s)
        val += *s++;
    return val & ALISP_OBJ_PAIR_HASH_MASK;
}

static void nomem(void)
{
    SNDERR("alisp: no enough memory");
}

static void lisp_verbose(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
    if (!instance->verbose)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->vout, "alisp: ");
    snd_output_vprintf(instance->vout, fmt, ap);
    snd_output_putc(instance->vout, '\n');
    va_end(ap);
}

static void lisp_error(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
    if (!instance->warning)
        return;
    va_start(ap, fmt);
static void lisp_warn(struct alisp_instance *instance, const char *fmt, ...) 
 {
  va_list ap;

  if (!instance->warning)
    return;
  va_start(ap, fmt);
  snd_output_printf(instance->wout, "alisp warning: ");
  snd_output_vprintf(instance->wout, fmt, ap);
  snd_output_putc(instance->wout, '\n');
  va_end(ap);
}

static void lisp_debug(struct alisp_instance *instance, const char *fmt, ...) 
{
  va_list ap;

  if (!instance->debug)
    return;
  va_start(ap, fmt);
  snd_output_printf(instance->dout, "alisp debug: ");
  snd_output_vprintf(instance->dout, fmt, ap);
  snd_output_putc(instance->dout, '\n');
  va_end(ap);
}

static struct alisp_object * new_object(struct alisp_instance *instance, int type) 
{
  struct alisp_object * p;

  if (list_empty(&instance->free_objs_list)) 
    { 
      p = (struct alisp_object *)malloc(sizeof(struct alisp_object));
      if (p == NULL) 
        {nomem();
         return NULL;
        }
      lisp_debug(instance, "allocating cons %p", p);
    } else 
    { 
      p = (struct alisp_object *)instance->free_objs_list.next;
      list_del(&p->list);
      instance->free_objs--;
      lisp_debug(instance, "recycling cons %p", p);
    }
instance->used_objs++;

alisp_set_type(p, type);
alisp_set_refs(p, 1);
if (type == ALISP_OBJ_CONS) {
  p->value.c.car = &alsa_lisp_nil;
  p->value.c.cdr = &alsa_lisp_nil;
  list_add(&p->list, &instance->used_objs_list[0][ALISP_OBJ_CONS]);
}

if (instance->used_objs + instance->free_objs > instance->max_objs)
  instance->max_objs = instance->used_objs + instance->free_objs;

return p;
}

static void free_object(struct alisp_object * p)
{
  switch (alisp_get_type(p)) {
  case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
      free(p->value.s);
alisp_set_type(p, ALISP_OBJ_INTEGER);
      break;
    default:
      break;
  }
}

static void delete_object(struct alisp_instance *instance, struct alisp_object * p)
{
  if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
    return;
  if (alisp_compare_type(p, ALISP_OBJ_NIL) ||
      alisp_compare_type(p, ALISP_OBJ_T))
    return;
  assert(alisp_get_refs(p) > 0);
lisp_debug(instance, "delete cons %p (type = %i, refs = %i) (s = '%s')", p, alisp_get_type(p), alisp_get_refs(p),
alisp_compare_type(p, ALISP_OBJ_STRING) ||
alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) ? p->value.s : "???");
  if (alisp_dec_refs(p))
    return;
  list_del(&p->list);
  instance->used_objs--;
  free_object(p);
  if (instance->free_objs >= ALISP_FREE_OBJ_POOL) {
lisp_debug(instance, "freed cons %p", p);
free(p);
return;
}
lisp_debug(instance, "moved cons %p to free list", p);
list_add(&p->list, &instance->free_objs_list);
instance->free_objs++;
}

static void delete_tree(struct alisp_instance *instance, struct alisp_object * p)
{
if (p == NULL)
return;
if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
delete_tree(instance, p->value.c.car);
delete_tree(instance, p->value.c.cdr);
}
delete_object(instance, p);
}

static struct alisp_object * incref_object(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * p)
{
if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
return p;
if (alisp_get_refs(p) == ALISP_MAX_REFS) {
assert(0);
fprintf(stderr, "OOPS: alsa lisp: incref fatal error\n");
exit(EXIT_FAILURE);
}
alisp_inc_refs(p);
return p;
}

static struct alisp_object * incref_tree(struct alisp_instance *instance, struct alisp_object * p)
{
if (p == NULL)
return NULL;
if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
incref_tree(instance, p->value.c.car);
incref_tree(instance, p->value.c.cdr);
}
return incref_object(instance, p);
}

/* Function not used yet. Leave it commented out until we actually use it to
 * avoid compiler complaints */
#if 0

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static struct alisp_object * incref_tree_explicit(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * e)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        if (e == p) {
            incref_tree(instance, p->value.c.car);
            incref_tree(instance, p->value.c.cdr);
        } else {
            incref_tree_explicit(instance, p->value.c.car, e);
            incref_tree_explicit(instance, p->value.c.cdr, e);
        }
    }
    if (e == p)
        return incref_object(instance, p);
    return p;
}
#endif

static void free_objects(struct alisp_instance *instance)
{
    struct list_head *pos, *pos1;
    struct alisp_object * p;
    struct alisp_object_pair * pair;
    int i, j;

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        list_for_each_safe(pos, pos1, &instance->setobjs_list[i]) {
            pair = list_entry(pos, struct alisp_object_pair, list);
            lisp_debug(instance, "freeing pair: '%s' -> %p", pair->name, pair->value);
            delete_tree(instance, pair->value);"pair->value);
            free((void *)pair->name);
            free(pair);
        }
    }
    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
    for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++) {
        list_for_each_safe(pos, pos1, &instance->used_objs_list[i][j]) {
            p = list_entry(pos, struct alisp_object, list);
            lisp_warn(instance, "object %p is still referenced %i times!", p, alisp_get_refs(p));
            if (alisp_get_refs(p) > 0)
                alisp_set_refs(p, 1);
        }
    }
}
delete_object(instance, p);
}
}
list_for_each_safe(pos, pos1, &instance->free_objs_list) {
p = list_entry(pos, struct alisp_object, list);
list_del(&p->list);
free(p);
lisp_debug(instance, "freed (all) cons %p", p);
}
}

static struct alisp_object * search_object_identifier(struct alisp_instance *instance, const char *s)
{
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_IDENTIFIER]) {
p = list_entry(pos, struct alisp_object, list);
if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
    continue;
if (!strcmp(p->value.s, s))
    return incref_object(instance, p);
}
return NULL;
}

static struct alisp_object * search_object_string(struct alisp_instance *instance, const char *s)
{
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_STRING]) {
p = list_entry(pos, struct alisp_object, list);
if (!strcmp(p->value.s, s)) {
    if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
    return incref_object(instance, p);
}
}
return NULL;
}

static struct alisp_object * search_object_integer(struct alisp_instance *instance, long in)
{
struct list_head * pos;
struct alisp_object * p;
list_for_each(pos, &instance->used_objs_list[(long)in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER])
{
    p = list_entry(pos, struct alisp_object, list);
    if (p->value.i == in) {
        if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
            continue;
        return incref_object(instance, p);
    }
}

return NULL;

static struct alisp_object * search_object_float(struct alisp_instance *instance, double in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT])
    {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
}

static struct alisp_object * search_object_pointer(struct alisp_instance *instance, const void *ptr)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER])
    {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.ptr == ptr) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
static struct alisp_object * new_integer(struct alisp_instance *instance, long value)
{
    struct alisp_object * obj;

    obj = search_object_integer(instance, value);
    if (obj != NULL)
        return obj;

    obj = new_object(instance, ALISP_OBJ_INTEGER);
    if (obj) {
        list_add(&obj->list, &instance->used_objs_list[value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]);
        obj->value.i = value;
    }
    return obj;
}

static struct alisp_object * new_float(struct alisp_instance *instance, double value)
{
    struct alisp_object * obj;

    obj = search_object_float(instance, value);
    if (obj != NULL)
        return obj;

    obj = new_object(instance, ALISP_OBJ_FLOAT);
    if (obj) {
        list_add(&obj->list, &instance->used_objs_list[(long)value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]);
        obj->value.f = value;
    }
    return obj;
}

static struct alisp_object * new_string(struct alisp_instance *instance, const char *str)
{
    struct alisp_object * obj;

    obj = search_object_string(instance, str);
    if (obj != NULL)
        return obj;

    obj = new_object(instance, ALISP_OBJ_STRING);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(str)][ALISP_OBJ_STRING]);
    if (obj && (obj->value.s = strdup(str)) == NULL) {
        delete_object(instance, obj);
        nomem();
    }
    return NULL;
static struct alisp_object * new_identifier(struct alisp_instance *instance, const char *id)
{
  struct alisp_object * obj;

  obj = search_object_identifier(instance, id);
  if (obj != NULL)
    return obj;
  obj = new_object(instance, ALISP_OBJ_IDENTIFIER);
  if (obj)
    list_add(&obj->list, &instance->used_objs_list[get_string_hash(id)][ALISP_OBJ_IDENTIFIER]);
  if (obj && (obj->value.s = strdup(id)) == NULL) {
    delete_object(instance, obj);
    nomem();
    return NULL;
  }
  return obj;
}

static struct alisp_object * new_pointer(struct alisp_instance *instance, const void *ptr)
{
  struct alisp_object * obj;

  obj = search_object_pointer(instance, ptr);
  if (obj != NULL)
    return obj;
  obj = new_object(instance, ALISP_OBJ_POINTER);
  if (obj) {
    list_add(&obj->list, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]);
    obj->value.ptr = ptr;
  }
  return obj;
}

static struct alisp_object * new_cons_pointer(struct alisp_instance * instance, const char *ptr_id, void *ptr)
{
  struct alisp_object * lexpr;

  if (ptr == NULL)
    return &alsa_lisp_nil;
  lexpr = new_object(instance, ALISP_OBJ_CONS);
  if (lexpr == NULL)
    return NULL;
  lexpr->value.c.car = new_string(instance, ptr_id);
if (lexpr->value.c.car == NULL)
goto __end;
lexpr->value.c.cdr = new_pointer(instance, ptr);
if (lexpr->value.c.cdr == NULL) {
delete_object(instance, lexpr->value.c.car);
__end:
delete_object(instance, lexpr);
return NULL;
}
return lexpr;
}

void alsa_lisp_init_objects(void) __attribute__ ((constructor));

void alsa_lisp_init_objects(void)
{
memset(&alsa_lisp_nil, 0, sizeof(alsa_lisp_nil));
alisp_set_type(&alsa_lisp_nil, ALISP_OBJ_NIL);
INIT_LIST_HEAD(&alsa_lisp_nil.list);
memset(&alsa_lisp_t, 0, sizeof(alsa_lisp_t));
alisp_set_type(&alsa_lisp_t, ALISP_OBJ_T);
INIT_LIST_HEAD(&alsa_lisp_t.list);
}

/*
 * lexer
 */

static int xgetc(struct alisp_instance *instance)
{
instance->charno++;
if (instance->lex_bufp > instance->lex_buf)
return *(instance->lex_buf);
return snd_input_getc(instance->in);
}

static inline void xungetc(struct alisp_instance *instance, int c)
{
*(instance->lex_bufp)++ = c;
instance->charno--;
}

static int init_lex(struct alisp_instance *instance)
{
instance->charno = instance->lineno = 1;
instance->token_buffer_max = 10;
if ((instance->token_buffer = (char *)malloc(instance->token_buffer_max)) == NULL) {
nomem();
return -ENOMEM;
}
instance->lex_bufp = instance->lex_buf;
return 0;
}

static void done_lex(struct alisp_instance *instance)
{
 free(instance->token_buffer);
}

static char * extend_buf(struct alisp_instance *instance, char *p)
{
 int off = p - instance->token_buffer;

 instance->token_buffer_max += 10;
 instance->token_buffer = (char *)realloc(instance->token_buffer, instance->token_buffer_max);
 if (instance->token_buffer == NULL) {
 nomem();
 return NULL;
 }

 return instance->token_buffer + off;
}

static int gettoken(struct alisp_instance *instance)
{
 char *p;
 int c;

 for (;;) {
 c = xgetc(instance);
 switch (c) {
 case '\n':
 ++instance->lineno;
 break;

case ':': case '\f': case '\t': case '\v': case '\r':
break;

case '\': /* Comment: "." */
 while ((c = xgetc(instance)) != '\n' && c != EOF)
 :;
 if (c != EOF)
 ++instance->lineno;
 break;
}
case '?':
    /* Character: '?'. */
    c = xgetc(instance);
    sprintf(instance->token_buffer, "%d", c);
    return instance->thistoken = ALISP_INTEGER;

    case '-':
    /* Minus sign: '-'. */
    c = xgetc(instance);
    if (!isdigit(c)) {
        xungetc(instance, c);
        c = '-';
        goto got_id;
    }
    xungetc(instance, c);
    c = '-';
    /* FALLTHRU */

    case '0':
    case '1': case '2': case '3':
    case '4': case '5': case '6':
    case '7': case '8': case '9':
    /* Integer: [0-9]+ */
    p = instance->token_buffer;
    instance->thistoken = ALISP_INTEGER;
    do {
        _ok:
        if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
            p = extend_buf(instance, p);
            if (p == NULL)
                return instance->thistoken = EOF;
        }
        *p++ = c;
        c = xgetc(instance);
        if (c == '.' && instance->thistoken == ALISP_INTEGER) {
            c = xgetc(instance);
            xungetc(instance, c);
            if (isdigit(c)) {
                instance->thistoken = ALISP_FLOAT;
                c = '.';
                goto _ok;
            } else {
                c = '.';
            }
        } else if (c == 'e' && instance->thistoken == ALISP_FLOAT) {
            c = xgetc(instance);
            if (isdigit(c)) {
                instance->thistoken = ALISP_FLOAT;
                c = 'e';
                goto __ok;
            } else {
                c = 'e';
            }
        } else if (c == 'e' && instance->thistoken == ALISP_FLOAT) {
            c = xgetc(instance);
            if (isdigit(c)) {
                instance->thistoken = ALISP_FLOAT;
                c = 'e';
                goto _ok;
            } else {
                c = 'e';
            }
        }
    }
goto __ok;
}
}
} while (isdigit(c));
xungetc(instance, c);
*p = '\0';
return instance->thistoken;
got_id:
case '!': case '_': case '+': case '*': case '/': case '%':
case '<': case '>': case '=': case '&':
case 'a': case 'b': case 'c': case 'd': case 'e': case 'f':
case 'g': case 'h': case 'i': case 'j': case 'k': case 'l':
case 'm': case 'n': case 'o': case 'p': case 'q': case 'r':
case 's': case 't': case 'u': case 'v': case 'w': case 'x':
case 'y': case 'z':
case 'A': case 'B': case 'C': case 'D': case 'E': case 'F':
case 'G': case 'H': case 'I': case 'J': case 'K': case 'L':
case 'M': case 'N': case 'O': case 'P': case 'Q': case 'R':
case 'S': case 'T': case 'U': case 'V': case 'W': case 'X':
case 'Y': case 'Z':
/* Identifier: [!-/+*%<>=&a-zA-Z_][-/+*%<>=&a-zA-Z_0-9]* */
p = instance->token_buffer;
do {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
*p++ = c;
c = xgetc(instance);
} while (isalnum(c) || strchr("!_-+*/%<>=&", c) != NULL);
xungetc(instance, c);
*p = '\0';
return instance->thistoken = ALISP_IDENTIFIER;
case '"':
/* String: "\""([^"]|"\\".)*"\"" */
p = instance->token_buffer;
while ((c = xgetc(instance)) != '"' && c != EOF) {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
if (c == '\\') {
c = xgetc(instance);
switch (c) {

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case '\n': ++instance->lineno; break;
case 'a': *p++ = '\a'; break;
case 'b': *p++ = '\b'; break;
case 'f': *p++ = '\f'; break;
case 'n': *p++ = '\n'; break;
case 'r': *p++ = '\r'; break;
case 't': *p++ = '\t'; break;
case 'v': *p++ = '\v'; break;
default: *p++ = c;
}
else {
if (c == '\n')
++instance->lineno;
*p++ = c;
}
*p = '\0';
return instance->thistoken = ALISP_STRING;

default:
return instance->thistoken = c;
}
}
}

*/
/*
 * parser
 */

static struct alisp_object * parse_form(struct alisp_instance *instance)
{
int thistoken;
struct alisp_object * p, * first = NULL, * prev = NULL;

while ((thistoken = gettoken(instance)) != ')' && thistoken != EOF) {
/*
 * Parse a dotted pair notation.
 */
if (thistoken == '.') {
gettoken(instance);
if (prev == NULL) {
lisp_error(instance, "unexpected ".");
__err:
delete_tree(instance, first);
return NULL;
}
prev->value.c.cdr = parse_object(instance, 1);
if (prev->value.c.cdr == NULL)
goto __err;
if ((thistoken = gettoken(instance)) != ')') {
    lisp_error(instance, "expected ")’");
goto __err;
}
break;
}

p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
goto __err;

if (first == NULL)
    first = p;
if (prev != NULL)
    prev->value.c.cdr = p;

p->value.c.car = parse_object(instance, 1);
if (p->value.c.car == NULL)
goto __err;

prev = p;
}

if (first == NULL)
    return &alsa_lisp_nil;
else
    return first;
}

static struct alisp_object * quote_object(struct alisp_instance *instance, struct alisp_object * obj)
{
    struct alisp_object * p;

    if (obj == NULL)
goto __end1;

    p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
goto __end1;

    p->value.c.car = new_identifier(instance, "quote");
if (p->value.c.car == NULL)
goto __end;

    p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
if (p->value.c.cdr == NULL) {
    delete_object(instance, p->value.c.car);
    __end:
delete_object(instance, p);
    __end1:
delete_tree(instance, obj);
return NULL;
}

p->value.c.cdr->value.c.car = obj;
return p;
}

static inline struct alisp_object * parse_quote(struct alisp_instance *instance)
{
return quote_object(instance, parse_object(instance, 0));
}

static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken)
{
int thistoken;
struct alisp_object * p = NULL;

if (!havetoken)
    thistoken = gettoken(instance);
else
    thistoken = instance->thistoken;

switch (thistoken) {
    case EOF:
        break;
    case '\(':
        p = parse_form(instance);
        break;
    case '\)'
        p = parse_quote(instance);
        break;
    case ALISP_IDENTIFIER:
        if (!strcmp(instance->token_buffer, "t"))
            p = &alsa_lisp_t;
        else if (!strcmp(instance->token_buffer, "nil"))
            p = &alsa_lisp_nil;
        else {
            p = new_identifier(instance, instance->token_buffer);
        }
        break;
    case ALISP_INTEGER: {
        p = new_integer(instance, atol(instance->token_buffer));
        break;
    }
    case ALISP_FLOAT:
case ALISP_FLOATE: {
p = new_float(instance, atof(instance->token_buffer));
break;
}
case ALISP_STRING:
p = new_string(instance, instance->token_buffer);
break;
default:
lisp_warn(instance, "%d:%d: unexpected character `%c'", instance->lineno, instance->charno, thistoken);
break;
}
return p;
}
/*
 * object manipulation
 */
static struct alisp_object_pair * set_object_direct(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
struct alisp_object_pair *p;
const char *id;
id = name->value.s;
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
nomem();
return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
delete_tree(instance, value);
free(p);
return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}
static int check_set_object(struct alisp_instance * instance, struct alisp_object * name)
{
if (name == &alsa_lisp_nil) {
lisp_warn(instance, "setting the value of a nil object");
return 0;
}
if (name == &alsa_lisp_t) {
    lisp_warn(instance, "setting the value of a t object");
    return 0;
}
if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
    !alisp_compare_type(name, ALISP_OBJ_STRING)) {
    lisp_warn(instance, "setting the value of an object with non-identifier");
    return 0;
}
return 1;
}

static struct alisp_object_pair * set_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value) {
    struct list_head *pos;
    struct alisp_object_pair *p;
    const char *id;

    if (name == NULL || value == NULL) return NULL;

    id = name->value.s;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            delete_tree(instance, p->value);
            p->value = value;
            return p;
        }
    }

    p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
    if (p == NULL) {
        nomem();
        return NULL;
    }
    p->name = strdup(id);
    if (p->name == NULL) {
        delete_tree(instance, value);
        free(p);
        return NULL;
    }
    list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
    p->value = value;
    return p;
static struct alisp_object * unset_object(struct alisp_instance *instance, struct alisp_object * name)
{
    struct list_head *pos;
    struct alisp_object *res;
    struct alisp_object_pair *p;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "unset object with a non-identifier");
        return &alsa_lisp_nil;
    }
    id = name->value.s;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            list_del(&p->list);
            res = p->value;
            free((void *)p->name);
            free(p);
            return res;
        }
    }
    return &alsa_lisp_nil;
}

static struct alisp_object * get_object1(struct alisp_instance *instance, const char *id)
{
    struct alisp_object_pair *p;
    struct list_head *pos;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id))
            return p->value;
    }
    return &alsa_lisp_nil;
}

static struct alisp_object * get_object(struct alisp_instance *instance, struct alisp_object * name)
{
    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        delete_tree(instance, name);
    }
}
static struct alisp_object * replace_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * onew)
{
    struct alisp_object_pair *p;
    struct alisp_object *r;
    struct list_head *pos;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        delete_tree(instance, name);
        return &alsa_lisp_nil;
    }
    id = name->value.s;
    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            r = p->value;
            p->value = onew;
            return r;
        }
    }
    return NULL;
}

static void dump_objects(struct alisp_instance *instance, const char *fname)
{
    struct alisp_object_pair *p;
    snd_output_t *out;
    struct list_head *pos;
    int i, err;

    if (!strcmp(fname, "-"))
        err = snd_output_stdio_attach(&out, stdout, 0);
    else
        err = snd_output_stdio_open(&out, fname, "w");
    if (err < 0) {
        SNDERR("alisp: cannot open file '%s' for writing (%s)", fname, snd_strerror(errno));
        return;
    }

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {

list_for_each(pos, &instance->setobjs_list[i]) {
    p = list_entry(pos, struct alisp_object_pair, list);
    if (alisp_compare_type(p->value, ALISP_OBJ_CONS) &&
        alisp_compare_type(p->value->value.c.car, ALISP_OBJ_IDENTIFIER) &&
        !strcmp(p->value->value.c.car->value.s, "lambda") ) {
        snd_output_printf(out, "(defun %s ", p->name);
        prin_cons(out, p->value->value.c.cdr);
        snd_output_printf(out, ")\n");
        continue;
    }
    snd_output_printf(out, "(setq %s ", p->name);
    prin_object(out, p->value);
    snd_output_printf(out, ")\n");
    }
}
snd_output_close(out);
}

static const char *obj_type_str(struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_NIL: return "nil";
    case ALISP_OBJ_T: return "t";
    case ALISP_OBJ_INTEGER: return "integer";
    case ALISP_OBJ_FLOAT: return "float";
    case ALISP_OBJ_IDENTIFIER: return "identifier";
    case ALISP_OBJ_STRING: return "string";
    case ALISP_OBJ_POINTER: return "pointer";
    case ALISP_OBJ_CONS: return "cons";
    default: assert(0);
    }
}

static void print_obj_lists(struct alisp_instance *instance, snd_output_t *out)
{
    struct list_head *pos;
    struct alisp_object * p;
    int i, j;

    snd_output_printf(out, "** used objects\n");
    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
        for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
            list_for_each(pos, &instance->used_objs_list[i][j]) {
                p = list_entry(pos, struct alisp_object, list);
                snd_output_printf(out, "** %p (%s) (", p, obj_type_str(p));
                if (!alisp_compare_type(p, ALISP_OBJ_CONS))
                    prin_object(out, p);
                else
                    continue;
            }
    }
}


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static void dump_obj_lists(struct alisp_instance *instance, const char *fname)
{
    snd_output_t *out;
    int err;

    if (!strcmp(fname, "-"))
        err = snd_output_stdio_attach(&out, stdout, 0);
    else
        err = snd_output_stdio_open(&out, fname, "w+");
    if (err < 0) {
        SNDERR("alisp: cannot open file '%s' for writing (%s)", fname, snd_strerror(errno));
        return;
    }

    print_obj_lists(instance, out);

    snd_output_close(out);
}

/*
 *  functions
 */

static int count_list(struct alisp_object * p)
{
    int i = 0;

    while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS)) {
        p = p->value.c.cdr;
        ++i;
    }

    return i;
}

static inline struct alisp_object * car(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS)
return p->value.c.car;

return &alsa_lisp_nil;
}

static inline struct alisp_object * cdr(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.cdr;

    return &alsa_lisp_nil;
}

/*
 * Syntax: (car expr)
 */

static struct alisp_object * F_car(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object *p1 = car(args), *p2;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p1 = eval(instance, p1);
    delete_tree(instance, cdr(p1));
    p2 = car(p1);
    delete_object(instance, p1);
    return p2;
}

/*
 * Syntax: (cdr expr)
 */

static struct alisp_object * F_cdr(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object *p1 = car(args), *p2;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p1 = eval(instance, p1);
    delete_tree(instance, cdr(p1));
    p2 = cdr(p1);
    delete_object(instance, p1);
    return p2;
}

/*
 * Syntax: (+ expr...)
 */

static struct alisp_object * F_add(struct alisp_instance *instance, struct alisp_object * args)
struct alisp_object * p = args, * p1, * n;
long v = 0;
double f = 0;
int type = ALISP_OBJ_INTEGER;

p1 = eval(instance, car(p));
for (;;) {
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
        if (type == ALISP_OBJ_FLOAT)
            f += p1->value.i;
        else
            v += p1->value.i;
    } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
        f += p1->value.f + v;
        v = 0;
        type = ALISP_OBJ_FLOAT;
    } else {
        lisp_warn(instance, "sum with a non integer or float operand");
    }
    delete_tree(instance, p1);
    p = cdr(n = p);
    delete_object(instance, n);
    if (p == &alsa_lisp_nil)
        break;
    p1 = eval(instance, car(p));
}
if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}

/*
 * Syntax: (concat expr...)
 */
static struct alisp_object * F_concat(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    char *str = NULL, *str1;
    p1 = eval(instance, car(p));
    for (;;) {
        if (alisp_compare_type(p1, ALISP_OBJ_STRING)) {
            str1 = realloc(str, (str ? strlen(str) : 0) + strlen(p1->value.s) + 1);
            if (str1 == NULL) {
                nomem();
                free(str);
            }
            str1 = realloc(str1, strlen(str) + strlen(p1->value.s) + 1);
            if (str1 == NULL) {
                nomem();
                free(str);
            }
        } else {
            lisp_warn(instance, "concat with a non string operand");
        }
        delete_tree(instance, p1);
        p = cdr(n = p);
        delete_object(instance, n);
        if (p == &alsa_lisp_nil)
            break;
        p1 = eval(instance, car(p));
    }
    return new_string(instance, str1);
}
return NULL;
}
if (str == NULL)
strcpy(str1, p1->value.s);
else
strcat(str1, p1->value.s);
str = str1;
} else {
  lisp_warn(instance, "concat with a non string or identifier operand");
}
delete_tree(instance, p1);
p = cdr(n = p);
delete_object(instance, n);
if (p == &alsa_lisp_nil)
  break;
p1 = eval(instance, car(p));
}
if (str) {
p = new_string(instance, str);
free(str);
} else {
p = &alsa_lisp_nil;
}
return p;
}

/*
 * Syntax: (- expr...)
 */
static struct alisp_object * F_sub(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p = args, * p1, * n;
  long v = 0;
  double f = 0;
  int type = ALISP_OBJ_INTEGER;

do {
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
  if (p == args && cdr(p) != &alsa_lisp_nil) {
    v = p1->value.i;
  } else {
    if (type == ALISP_OBJ_FLOAT)
      f = -p1->value.i;
    else
      v = -p1->value.i;
  }
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
if (type == ALISP_OBJ_INTEGER) {
    f = v;
    type = ALISP_OBJ_FLOAT;
}
if (p == args && cdr(p) != &alsa_lisp_nil)
    f = p1->value.f;
else {
    f -= p1->value.f;
}
else
    lisp_warn(instance, "difference with a non integer or float operand");
delete_tree(instance, p1);

if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}

/*
 * Syntax: (* expr...)
 */
static struct alisp_object * F_mul(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 1;
    double f = 1;
    int type = ALISP_OBJ_INTEGER;

    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (type == ALISP_OBJ_FLOAT)
                f *= p1->value.i;
            else
                v *= p1->value.i;
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            f *= p1->value.f * v;
            v = 1;
            type = ALISP_OBJ_FLOAT;
        } else {
            lisp_warn(instance, "product with a non integer or float operand");
        }
        delete_tree(instance, p1);
    } while (p != &alsa_lisp_nil);
    return new_float(instance, f);
}
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}

/*
 * Syntax: (/ expr...)
 */
static struct alisp_object * F_div(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;
    int type = ALISP_OBJ_INTEGER;

    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (p == args && cdr(p) != &alsa_lisp_nil) {
                v = p1->value.i;
            } else {
                if (p1->value.i == 0) {
                    lisp_warn(instance, "division by zero");
                    v = 0;
                    f = 0;
                    break;
                } else {
                    if (type == ALISP_OBJ_FLOAT)
                        f /= p1->value.i;
                    else
                        v /= p1->value.i;
                }
            }
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            if (type == ALISP_OBJ_INTEGER) {
                f = v;
            } else {
                type = ALISP_OBJ_FLOAT;
            }
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            if (type == ALISP_OBJ_INTEGER) {
                f = v;
            } else {
                type = ALISP_OBJ_FLOAT;
            }
        } else if (p == args && cdr(p) != &alsa_lisp_nil) {
            f = p1->value.f;
        } else {
            type = ALISP_OBJ_FLOAT;
        }
    } while (p != &alsa_lisp_nil);
if (p1->value.f == 0) {
    lisp_warn(instance, "division by zero");
    f = 0;
    break;
} else {
    f /= p1->value.i;
}
}
}
else
lisp_warn(instance, "quotient with a non integer or float operand");
delete_tree(instance, p1);
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
    return new_integer(instance, v);
} else {
    return new_float(instance, f);
}
}

/*
 * Syntax: (% expr1 expr2)
 */
static struct alisp_object * F_mod(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p2->value.i == 0) {
            lisp_warn(instance, "module by zero");
            p3 = new_integer(instance, 0);
        } else {
            p3 = new_integer(instance, p1->value.i % p2->value.i);
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {
double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
f1 = fmod(f1, f2);
if (f1 == EDOM) {
  lisp_warn(instance, "module by zero");
p3 = new_float(instance, 0);
} else {
p3 = new_float(instance, f1);
}
} else {
lisp_warn(instance, "module with a non integer or float operand");
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return p3;
}

/*
 * Syntax: (< expr1 expr2)
*/
static struct alisp_object * F_lt(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

  if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
      alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i < p2->value.i) {
      __true:
      delete_tree(instance, p1);
      delete_tree(instance, p2);
      return &alsa_lisp_t;
    }
  } else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER)) ||
              alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
             (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
              alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 < f2)
goto __true;
} else {
  lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (> expr1 expr2)
 */

static struct alisp_object * F_gt(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

  if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
      alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i > p2->value.i) {
      __true:
      delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
    }
  } else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
              alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
             (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
              alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {  
double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 > f2)
goto __true;
} else {
  lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (<= expr1 expr2)
*/
static struct alisp_object * F_le(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;
    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) { 
    if (p1->value.i <= p2->value.i) {
___true:
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
    }
    } else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))))
{ double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 <= f2)
goto ___true;
    } else {
lisp_warn(instance, "comparison with a non integer or float operand");
    }

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (>= expr1 expr2)
*/
static struct alisp_object * F_ge(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i >= p2->value.i) {
        __true:
        delete_tree(instance, p1);
delete_tree(instance, p2);
        return &alsa_lisp_t;
    }
} else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 >= f2)
goto __true;
} else {
lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;

/*
 * Syntax: (= expr1 expr2)
 */

static struct alisp_object * F_numeq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
alisp_compare_type(p2, ALISP_OBJ_INTEGER)) { 
if (p1->value.i == p2->value.i) {
    __true:
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_t;
}
else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 == f2)
        goto __true;
} else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (!= expr1 expr2)
 */
static struct alisp_object * F_numneq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = F_numeq(instance, args);
    if (p == &alsa_lisp_nil)
        return &alsa_lisp_t;
    return &alsa_lisp_nil;
}

/*
 * Syntax: (exfun name)
 * Test, if a function exists
 */
static struct alisp_object * F_exfun(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    delete_tree(instance, cdr(args));
delete_object(instance, args);
p2 = get_object(instance, p1);
if (p2 == &alsa_lisp_nil) {
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}
p2 = car(p2);
if (alisp_compare_type(p2, ALISP_OBJ_IDENTIFIER) &&
        !strcmp(p2->value.s, "lambda")) {
    delete_tree(instance, p1);
    return &alsa_lisp_t;
}
delete_tree(instance, p1);
return &alsa_lisp_nil;

static void princ_string(snd_output_t *out, char *s)
{
    char *p;

    snd_output_putchar(out, "" );
    for (p = s; *p != '\0'; ++p)
        switch (*p) {
            case 'a': snd_output_putchar(out, '\'); snd_output_putchar(out, 'a'); break;
            case 'b': snd_output_putchar(out, '\'); snd_output_putchar(out, 'b'); break;
            case 'f': snd_output_putchar(out, '\'); snd_output_putchar(out, 'f'); break;
            case 'n': snd_output_putchar(out, '\'); snd_output_putchar(out, 'n'); break;
            case 'r': snd_output_putchar(out, '\'); snd_output_putchar(out, 'r'); break;
            case 't': snd_output_putchar(out, '\'); snd_output_putchar(out, 't'); break;
            case 'v': snd_output_putchar(out, '\'); snd_output_putchar(out, 'v'); break;
            case '"': snd_output_putchar(out, '\'); snd_output_putchar(out, '"'); break;
            default: snd_output_putchar(out, *p);
        }
    snd_output_putchar(out, "" );
}

static void princ_cons(snd_output_t *out, struct alisp_object * p)
{
    do {
        princ_object(out, p->value.c.car);
        p = p->value.c.cdr;
        if (p != &alsa_lisp_nil) {
            snd_output_putchar(out, ' ');
            if (!alisp_compare_type(p, ALISP_OBJ_CONS)) {
                snd_output_putchar(out, '.');
                princ_object(out, p);
            }
        }
    } while (p != &alsa_lisp_nil);
}
static void princ_object(snd_output_t *out, struct alisp_object * p)
{
switch (alisp_get_type(p)) {
case ALISP_OBJ_NIL:
    snd_output_printf(out, "nil");
    break;
case ALISP_OBJ_T:
    snd_output_putc(out, '\t');
    break;
case ALISP_OBJ_IDENTIFIER:
    snd_output_printf(out, "%s", p->value.s);
    break;
case ALISP_OBJ_STRING:
    princ_string(out, p->value.s);
    break;
case ALISP_OBJ_INTEGER:
    snd_output_printf(out, "%ld", p->value.i);
    break;
case ALISP_OBJ_FLOAT:
    snd_output_printf(out, "%f", p->value.f);
    break;
case ALISP_OBJ_POINTER:
    snd_output_printf(out, "<%p>", p->value.ptr);
    break;
case ALISP_OBJ_CONS:
    snd_output_putc(out, '(');
    princ_cons(out, p);
    snd_output_putc(out, ')');
}

/*
 * Syntax: (princ expr...)
 */
static struct alisp_object * F_princ(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

    do {
if (p1)
    delete_tree(instance, p1);
    p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_STRING))
    snd_output_printf(instance->out, "%s", p1->value.s);
else
princ_object(instance->out, p1);
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

return p1;
}

/ *
* Syntax: (atom expr)
*/
static struct alisp_object * F_atom(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = eval(instance, car(args));
delete_tree(instance, cdr(args));
delete_object(instance, args);
if (p == NULL)
return NULL;

switch (alisp_get_type(p)) {
case ALISP_OBJ_T:
case ALISP_OBJ_NIL:
case ALISP_OBJ_INTEGER:
case ALISP_OBJ_FLOAT:
case ALISP_OBJ_STRING:
case ALISP_OBJ_IDENTIFIER:
case ALISP_OBJ_POINTER:
delete_tree(instance, p);
return &alsa_lisp_t;
default:
break;
}

delete_tree(instance, p);
return &alsa_lisp_nil;
}

/ *
* Syntax: (cons expr1 expr2)
*/
static struct alisp_object * F_cons(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = new_object(instance, ALISP_OBJ_CONS);
if (p) {
    p->value.c.car = eval(instance, car(args));
    p->value.c.cdr = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    return p;
} else {
    delete_tree(instance, args);
}

return p;

/*
 * Syntax: (list expr1...)
 */

static struct alisp_object * F_list(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * first = NULL, * prev = NULL, * p1;

    if (p == &alsa_lisp_nil)
        return &alsa_lisp-nil;

    do {
        p1 = new_object(instance, ALISP_OBJ_CONS);
        if (p1 == NULL) {
            delete_tree(instance, p);
            delete_tree(instance, first);
            return NULL;
        }
        p1->value.c.car = eval(instance, car(p));
        if (p1->value.c.car == NULL) {
            delete_tree(instance, first);
            delete_tree(instance, cdr(p));
            delete_object(instance, p);
            return NULL;
        }
        if (first == NULL)
            first = p1;
        if (prev != NULL)
            prev->value.c.cdr = p1;
        prev = p1;
        p = cdr(p1 = p);
        delete_object(instance, p1);
    } while (p != &alsa_lisp-nil);

    return first;
}
static inline int eq(struct alisp_object * p1, struct alisp_object * p2)
    {
        return p1 == p2;
    }

static int equal(struct alisp_object * p1, struct alisp_object * p2)
    {
        int type1, type2;

        if (eq(p1, p2))
            return 1;

        type1 = alisp_get_type(p1);
        type2 = alisp_get_type(p2);

        if (type1 == ALISP_OBJ_CONS || type2 == ALISP_OBJ_CONS)
            return 0;

        if (type1 == type2) {
            switch (type1) {
                case ALISP_OBJ_STRING:
                    return !strcmp(p1->value.s, p2->value.s);
                case ALISP_OBJ_INTEGER:
                    return p1->value.i == p2->value.i;
                case ALISP_OBJ_FLOAT:
                    return p1->value.i == p2->value.i;
                    
            }
        }

        return 0;
    }

/*
 * Syntax: (eq expr1 expr2)
 */
static struct alisp_object * F_eq(struct alisp_instance *instance, struct alisp_object * args)
    {
        struct alisp_object * p1, * p2;

        p1 = eval(instance, car(args));
        p2 = eval(instance, car(cdr(args)));
        delete_tree(instance, cdr(cdr(args)));
        delete_object(instance, cdr(args));
        delete_object(instance, args);

        if (eq(p1, p2)) {
            delete_tree(instance, p1);
        }
    }
delete_tree(instance, p2);
return &alsa_lisp_t;
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
* Syntax: (equal expr1 expr2)
*/
static struct alisp_object * F_equal(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

    if (equal(p1, p2)) {
        delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
    }
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
* Syntax: (quote expr)
*/
static struct alisp_object * F_quote(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args)
{
    struct alisp_object *p = car(args);

delete_tree(instance, cdr(args));
delete_object(instance, args);
return p;
}

/*
* Syntax: (and expr...)
*/
static struct alisp_object * F_and(struct alisp_instance *instance, struct alisp_object * args)
struct alisp_object * p = args, * p1 = NULL, * n;

do {
    if (p1)
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (p1 == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        delete_tree(instance, cdr(p));
        delete_object(instance, p);
        return &alsa_lisp_nil;
    }
    p = cdr(n = p);
    delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
}

/*
 * Syntax: (or expr...)
 */
static struct alisp_object * F_or(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;

do {
    if (p1)
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (p1 != &alsa_lisp_nil) {
        delete_tree(instance, cdr(p));
        delete_object(instance, p);
        return p1;
    }
    p = cdr(n = p);
    delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return &alsa_lisp_nil;
}

/*
 * Syntax: (not expr)
 * Syntax: (null expr)
 */
static struct alisp_object * F_not(struct alisp_instance *instance, struct alisp_object * args)
struct alisp_object * p = eval(instance, car(args));

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (p != &alsa_lisp_nil) {
    delete_tree(instance, p);
    return &alsa_lisp_nil;
}
delete_tree(instance, p);
return &alsa_lisp_t;
}

/*
* Syntax: (cond (expr1 [expr2])...)
*/
static struct alisp_object * F_cond(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * p2, * p3;

    do {
        p1 = car(p);
        if ((p2 = eval(instance, car(p1))) != &alsa_lisp_nil) {
            p3 = cdr(p1);
            delete_object(instance, p1);
            delete_tree(instance, cdr(p));
            delete_object(instance, p);
            if (p3 != &alsa_lisp_nil) {
                delete_tree(instance, p2);
                return F_progn(instance, p3);
            } else {
                delete_tree(instance, p3);
                return p2;
            }
        } else {
            delete_tree(instance, p2);
            delete_tree(instance, cdr(p1));
            delete_object(instance, p1);
        }
    } while (p != &alsa_lisp_nil);
    return &alsa_lisp_nil;
}

/*
/* Syntax: (if expr then-expr else-expr...) */
static struct alisp_object * F_if(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = car(args);
p2 = car(cdr(args));
p3 = cdr(cdr(args));
delete_object(instance, cdr(args));
delete_object(instance, args);

    p1 = eval(instance, p1);
    if (p1 != &alsa_lisp_nil) {
        delete_tree(instance, p1);
delete_tree(instance, p3);
return eval(instance, p2);
    }

delete_tree(instance, p1);
delete_tree(instance, p2);
return F_progn(instance, p3);
}

/*@*/
/* Syntax: (when expr then-expr...) */
static struct alisp_object * F_when(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
p2 = cdr(args);
delete_object(instance, args);
if ((p1 = eval(instance, p1)) != &alsa_lisp_nil) {
delete_tree(instance, p1);
return F_progn(instance, p2);
} else {
delete_tree(instance, p1);
delete_tree(instance, p2);
}
return &alsa_lisp_nil;
}

/*@*/
/* Syntax: (unless expr else-expr...) */
static struct alisp_object * F_unless(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
    p2 = cdr(args);
    delete_object(instance, args);
    if ((p1 = eval(instance, p1)) == &alsa_lisp_nil) {
        return F_progn(instance, p2);
    } else {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

/*
 * Syntax: (while expr exprs...)
 */
static struct alisp_object * F_while(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = car(args);
    p2 = cdr(args);
    delete_object(instance, args);
    while (1) {
        incref_tree(instance, p1);
        if ((p3 = eval(instance, p1)) == &alsa_lisp_nil)
            break;
        delete_tree(instance, p3);
        incref_tree(instance, p2);
        delete_tree(instance, F_progn(instance, p2));
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (progn expr...)
 */
static struct alisp_object * F_progn(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;
do {
    if (p1)
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    n = cdr(p);
    delete_object(instance, p);
    p = n;
} while (p != &alsa_lisp_nil);

return p1;
}

/*
 * Syntax: (prog1 expr...)
 */
static struct alisp_object * F_prog1(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * first = NULL, * p1;

do {
    p1 = eval(instance, car(p));
    if (first == NULL)
        first = p1;
    else
        delete_tree(instance, p1);
    p1 = cdr(p);
    delete_object(instance, p);
    p = p1;
} while (p != &alsa_lisp_nil);

if (first == NULL)
    first = &alsa_lisp_nil;

return first;
}

/*
 * Syntax: (prog2 expr...)
 */
static struct alisp_object * FProg2(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * second = NULL, * p1;
    int i = 0;

do {
    p1 = eval(instance, car(p));
    ++i;
} while (p != &alsa_lisp_nil);

if (second == NULL)
    second = &alsa_lisp_nil;

return second;
}
if (i == 2)
  second = p1;
else
  delete_tree(instance, p1);
  p1 = cdr(p);
  delete_object(instance, p);
  p = p1;
} while (p != &alsa_lisp_nil);

if (second == NULL)
  second = &alsa_lisp_nil;

return second;
}

/*
 * Syntax: (set name value)
 */
static struct alisp_object * F_set(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1 = eval(instance, car(args)),
  * p2 = eval(instance, car(cdr(args)));

delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
if (!check_set_object(instance, p1)) {
  delete_tree(instance, p2);
  p2 = &alsa_lisp_nil;
} else {
  if (set_object(instance, p1, p2) == NULL) {
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return NULL;
  }
}

delete_tree(instance, p1);
return incref_tree(instance, p2);
}

/*
 * Syntax: (unset name)
 */
static struct alisp_object * F_unset(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1 = eval(instance, car(args));

delete_tree(instance, unset_object(instance, p1));
delete_tree(instance, cdr(args));
delete_object(instance, args);
return p1;
}

/*
 * Syntax: (setq name value...)
 * Syntax: (setf name value...)
 * `name' is not evalled
 */
static struct alisp_object * F_setq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * p2 = NULL, *n;

do {
p1 = car(p);
p2 = eval(instance, car(cdr(p)));
n = cdr(cdr(p));
delete_object(instance, cdr(p));
delete_object(instance, p);
if (!check_set_object(instance, p1)) {
delete_tree(instance, p2);
p2 = &alsa_lisp_nil;
} else {
if (set_object(instance, p1, p2) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return NULL;
}
}
delete_tree(instance, p1);
p = n;
} while (p != &alsa_lisp_nil);
return incref_tree(instance, p2);
}

/*
 * Syntax: (unsetq name...)
 * Syntax: (unsetf name...)
 * `name' is not evalled
 */
static struct alisp_object * F_unsetq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

do {
if (p1)
delete_tree(instance, p1);
p1 = unset_object(instance, car(p));
delete_tree(instance, car(p));
p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
} /*
* Syntax: (defun name arglist expr...) 
* `name' is not evalled 
* `arglist' is not evalled 
*/
static struct alisp_object * F_defun(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = car(args),
    * p2 = car(cdr(args)),
    * p3 = cdr(cdr(args));
struct alisp_object * lexpr;

lexpr = new_object(instance, ALISP_OBJ_CONS);
if (lexpr) {
    lexpr->value.c.car = new_identifier(instance, "lambda");
    if (lexpr->value.c.car == NULL) {
        delete_object(instance, lexpr);
        delete_tree(instance, args);
        return NULL;
    }
    if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
        delete_object(instance, lexpr->value.c.car);
        delete_object(instance, lexpr);
        delete_tree(instance, args);
        return NULL;
    }
    lexpr->value.c.cdr->value.c.car = p2;
    lexpr->value.c.cdr->value.c.cdr = p3;
    delete_object(instance, cdr(args));
    delete_object(instance, args);
    if (set_object(instance, p1, lexpr) == NULL) {
        delete_tree(instance, p1);
        delete_tree(instance, lexpr);
        return NULL;
    }
    delete_tree(instance, p1);
} else {
    delete_tree(instance, args);
static struct alisp_object * eval_func(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3, * p4;
    struct alisp_object ** eval_objs, ** save_objs;
    int i;

    p1 = car(p);
    if (alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER) &&
        !strcmp(p1->value.s, "lambda")) {
        p2 = car(cdr(p));
        p3 = args;

        if ((i = count_list(p2)) != count_list(p3)) {
            lisp_warn(instance, "wrong number of parameters");
            goto _delete;
        }
    }

    eval_objs = malloc(2 * i * sizeof(struct alisp_object *));
    if (eval_objs == NULL) {
        nomem();
        goto _delete;
    }
    save_objs = eval_objs + i;

    /*
     * Save the new variable values.
     */
    i = 0;
    while (p3 != &alsa_lisp_nil) {
        eval_objs[i++] = eval(instance, car(p3));
        p3 = cdr(p4 = p3);
        delete_object(instance, p4);
    }

    /*
     * Save the old variable values and set the new ones.
     */
    i = 0;
    while (p2 != &alsa_lisp_nil) {
        p3 = car(p2);
        save_objs[i] = replace_object(instance, p3, eval_objs[i]);
        if (save_objs[i] == NULL &&
            set_object_direct(instance, p3, eval_objs[i]) == NULL) {
            goto _delete;
        }
    }
}

return &alsa_lisp_nil;
p4 = NULL;
goto _end;
}
p2 = cdr(p2);
++i;
}
p4 = F_progn(instance, cdr(incref_tree(instance, p3 = cdr(p))));

/*
 * Restore the old variable values.
 */
p2 = car(p3);
delete_object(instance, p3);
i = 0;
while (p2 != &alsa_lisp_nil) {
p3 = car(p2);
if (save_objs[i] == NULL) {
    p3 = unset_object(instance, p3);
} else {
    p3 = replace_object(instance, p3, save_objs[i]);
}
i++;
delete_tree(instance, p3);
delete_tree(instance, car(p2));
p2 = cdr(p3 = p2);
delete_object(instance, p3);
}

_end:
free(eval_objs);

return p4;
} else {
    _delete:
delete_tree(instance, args);
}
return &alsa_lisp_nil;
}

struct alisp_object * F_gc(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args ATTRIBUTE_UNUSED)
{
/* improved: no more traditional gc */
return &alsa_lisp_t;
}
struct alisp_object * F_path(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1;

    p1 = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (!alisp_compare_type(p1, ALISP_OBJ_STRING)) {
        delete_tree(instance, p1);
        return &alsa_lisp_nil;
    }
    if (!strcmp(p1->value.s, "data")) {
        delete_tree(instance, p1);
        return new_string(instance, snd_config_topdir());
    }
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

struct alisp_object * F_include(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1;
    int res = -ENOENT;

    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_STRING))
            res = alisp_include_file(instance, p1->value.s);
        delete_tree(instance, p1);
        p = cdr(p1 = p);
        delete_object(instance, p1);
    } while (p != &alsa_lisp_nil);

    return new_integer(instance, res);
}

struct alisp_object * F_string_to_integer(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_INTEGER))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
    p1 = new_integer(instance, floor(p->value.f));
} else {
    lisp_warn(instance, "expected an integer or float for integer conversion");
    p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

/*
 * Syntax: (string-to-float value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_float(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_FLOAT))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
    p1 = new_float(instance, p->value.i);
} else {
    lisp_warn(instance, "expected an integer or float for integer conversion");
    p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

static int append_to_string(char **s, int *len, char *from, int size)
{
    if (*len == 0) {
        *s = malloc(*len = size + 1);
        if (*s == NULL) {
            nomem();
            return -ENOMEM;
        }
        memcpy(*s, from, size);
    } else {
        memcpy(*s, from, size);
    }
*len += size;
*s = realloc(*s, *len);
if (*s == NULL) {
    nomem();
    return -ENOMEM;
}
memcpy(*s + strlen(*s), from, size);
(*s)[*len - 1] = '\0';
return 0;
}

static int format_parse_char(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    char b;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "format: expected integer\n");
        return 0;
    }
    b = p->value.i;
    return append_to_string(s, len, &b, 1);
}

static int format_parse_integer(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    s1 = malloc(64);
    if (s1 == NULL) {
        nomem();
        return -ENOMEM;
    }
    sprintf(s1, "%li", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? (long)floor(p->value.f) : p->value.i);
    res = append_to_string(s, len, s1, strlen(s1));
    free(s1);
    return res;
}

static int format_parse_float(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
char *s1;

if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) ||
    !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
  lisp_warn(instance, "format: expected integer or float\n");
  return 0;
}
s1 = malloc(64);
if (s1 == NULL) {
  nomem();
  return -ENOMEM;
}
sprintf(s1, "%f", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? p->value.f : (double)p->value.i);
res = append_to_string(s, len, s1, strlen(s1));
free(s1);
return res;
}

static int format_parse_string(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
  if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
    lisp_warn(instance, "format: expected string\n");
    return 0;
  }
  return append_to_string(s, len, p->value.s, strlen(p->value.s));
}

/*
 * Syntax: (format format value...)
 * 'format' is C-like format string
 */
struct alisp_object * F_format(struct alisp_instance *instance, struct alisp_object *args)
{
  struct alisp_object * p = eval(instance, car(args)), * p1 = cdr(args), * n;
  char *s, *s1, *s2;
  int len;

  delete_object(instance, args);
  if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
    delete_tree(instance, p1);
    delete_tree(instance, p);
    lisp_warn(instance, "format: expected an format string");
    return &alsa_lisp_nil;
  }
  s = p->value.s;
  s1 = NULL;
  len = 0;
  n = eval(instance, car(p1));
do {
while (1) {
    s2 = s;
    while (*s2 && *s2 != '%')
        s2++;
    if (s2 != s) {
        if (append_to_string(&s1, &len, s, s2 - s) < 0) {
            __error:
            delete_tree(instance, n);
            delete_tree(instance, cdr(p1));
            delete_object(instance, p1);
            delete_tree(instance, p);
            return NULL;
        }
        if (*s2 == '%')
            s2++;
        switch (*s2) {
            case '%':
                if (append_to_string(&s1, &len, s2, 1) < 0)
                    goto __error;
                s = s2 + 1;
                break;
            case 'c':
                if (format_parse_char(instance, &s1, &len, n) < 0)
                    goto __error;
                s = s2 + 1;
                goto __next;
            case 'd':
                case 'i':
                    if (format_parse_integer(instance, &s1, &len, n) < 0)
                        goto __error;
                    s = s2 + 1;
                    goto __next;
                case 'f':
                    if (format_parse_float(instance, &s1, &len, n) < 0)
                        goto __error;
                    s = s2 + 1;
                    goto __next;
                case 's':
                    if (format_parse_string(instance, &s1, &len, n) < 0)
                        goto __error;
                    s = s2 + 1;
                    goto __next;
                case '0':
                    goto __end;
            default:
                lisp_warn(instance, "unknown format char '%c'", *s2);
s = s2 + 1;
goto __next;
}

__next:
delete_tree(instance, n);
p1 = cdr(n = p1);
delete_object(instance, n);
n = eval(instance, car(p1));
} while (*s);
__end:
delete_tree(instance, n);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
delete_tree(instance, p);
if (len > 0) {
p1 = new_string(instance, s1);
free(s1);
} else {
p1 = &alsa_lisp_nil;
}
return p1;
}

/*
 * Syntax: (compare-strings str1 start1 end1 str2 start2 end2 /opt-case-insensitive)
 * 'str1' is first compared string
 * 'start1' is first char (0..)
 * 'end1' is last char (0..)
 * 'str2' is second compared string
 * 'start2' is first char (0..)
 * 'end2' is last char (0..)
 * /opt-case-insensitive true - case insensitive match
 */
struct alisp_object * F_compare_strings(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1 = args, * n, * p[7];
    char *s1, *s2;
    int start1, end1, start2, end2;

    for (start1 = 0; start1 < 7; start1++) {
p[start1] = eval(instance, car(p1));
p1 = cdr(n = p1);
delete_object(instance, n);
}
delete_tree(instance, p1);
if (alisp_compare_type(p[0], ALISP_OBJ_STRING)) {
lisp_warn(instance, "compare-strings: first argument must be string\n");
}
p1 = &alsa_lisp_nil;
goto __err;
}
if (alisp_compare_type(p[1], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: second argument must be integer\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (alisp_compare_type(p[2], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: third argument must be integer\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (alisp_compare_type(p[3], ALISP_OBJ_STRING)) {
    lisp_warn(instance, "compare-strings: fifth argument must be string\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (!alisp_compare_type(p[4], ALISP_OBJ_NIL) &&
    !alisp_compare_type(p[4], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: fourth argument must be integer\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (!alisp_compare_type(p[5], ALISP_OBJ_NIL) &&
    !alisp_compare_type(p[5], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: sixth argument must be integer\n");
p1 = &alsa_lisp_nil;
goto __err;
}
s1 = p[0]->value.s;
start1 = p[1]->value.i;
end1 = p[2]->value.i;
s2 = p[3]->value.s;
start2 = alisp_compare_type(p[4], ALISP_OBJ_NIL) ? 0 : p[4]->value.i;
end2 = alisp_compare_type(p[5], ALISP_OBJ_NIL) ? start2 + (end1 - start1) : p[5]->value.i;
if (start1 < 0 || start2 < 0 || end1 < 0 || end2 < 0 ||
    start1 >= (int)strlen(s1) || start2 >= (int)strlen(s2) ||
    (end1 - start1) != (end2 - start2)) {
    p1 = &alsa_lisp_nil;
goto __err;
}
if (p[6] != &alsa_lisp_nil) {
    while (start1 < end1) {
        if (s1[start1] == '0' ||
            s2[start2] == '0' ||
            tolower(s1[start1]) != tolower(s2[start2])) {
            p1 = &alsa_lisp_nil;
        }
    }
}
goto __err;
}
start1++;  
start2++;  
}
} else {
while (start1 < end1) {
if (s1[start1] == \0' ||
s2[start2] == \0' ||
s1[start1] != s2[start2]) {
    p1 = &alsa_lisp_nil;
    goto __err;
}
start1++;  
start2++;  
}
}
p1 = &alsa_lisp_t;
__err:
for (start1 = 0; start1 < 7; start1++)
    delete_tree(instance, p[start1]);
return p1;

/*
 * Syntax: (assoc key alist)
 */
struct alisp_object * F_assoc(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));  
p2 = eval(instance, car(cdr(args)));  
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdargs));  
delete_object(instance, args);

do {
    if (eq(p1, car(car(p2)))) {
        n = car(p2);
        delete_tree(instance, p1);
        delete_tree(instance, cdr(p2));
        delete_object(instance, p2);
        return n;
    }
    delete_tree(instance, car(p2));  
p2 = cdr(n = p2);
}
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);

delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
* Syntax: (rassoc value alist)
*/
struct alisp_object * F_rassoc(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, *p2, * n;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

do {
if (eq(p1, cdr(car(p2)))) {
  n = car(p2);
delete_tree(instance, p1);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);

delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
* Syntax: (assq key alist)
*/
struct alisp_object * F_assq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * n;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
delete_object(instance, args);

do {
  if (equal(p1, car(car(p2)))) {
    n = car(p2);
    delete_tree(instance, p1);
    delete_tree(instance, cdr(p2));
    delete_object(instance, p2);
    return n;
  }
  delete_tree(instance, car(p2));
  p2 = cdr(n = p2);
  delete_object(instance, p2);
  return &alsa_lisp_nil;
}

/*
 * Syntax: (nth index alist)
 */

struct alisp_object * F_nth(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2, * n;
  long idx;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  if (!alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
  }
  if (!alisp_compare_type(p2, ALISP_OBJ_CONS)) {
    delete_object(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
  }
  idx = p1->value.i;
  delete_object(instance, p1);
  while (idx-- > 0) {
    delete_tree(instance, car(p2));
    p2 = cdr(n = p2);
delete_object(instance, n);
}
n = car(p2);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}

/*
 * Syntax: (rassq value alist)
 */
struct alisp_object * F_rassq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * n;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
do {
if (equal(p1, cdr(car(p2)))) {
    n = car(p2);
delete_tree(instance, p1);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
    return n;
}
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

static struct alisp_object * F_dump_memory(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = car(args);

if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
    alisp_compare_type(p, ALISP_OBJ_STRING)) {
if (strlen(p->value.s) > 0) {
dump_objects(instance, p->value.s);
delete_tree(instance, args);
return &alsa_lisp_t;
{ } else
lisp_warn(instance, "expected filename");
} else
lisp_warn(instance, "wrong number of parameters (expected string)"瘙

delete_tree(instance, args);
return &alsa_lisp_nil;
}

static struct alisp_object * F_stat_memory(struct alisp_instance *instance, struct alisp_object * args)
{
snd_output_printf(instance->out, "*** Memory stats
");
snd_output_printf(instance->out, "  used_objs = %li, free_objs = %li, max_objs = %li, obj_size = %i (total bytes =
%li, max bytes = %li)\n",
instance->used_objs,
instance->free_objs,
instance->max_objs,
(int)sizeof(struct alisp_object),
(long)((instance->used_objs + instance->free_objs) * sizeof(struct alisp_object)),
(long)((instance->max_objs * sizeof(struct alisp_object)));
delete_tree(instance, args);
return &alsa_lisp_nil;
}

static struct alisp_object * F_check_memory(struct alisp_instance *instance, struct alisp_object * args)
{
delete_tree(instance, args);
if (instance->used_objs > 0) {
fprintf(stderr, "!!!alsa lisp - check memory failed!!!\n");
F_stat_memory(instance, &alsa_lisp_nil);
exit(EXIT_FAILURE);
}
return &alsa_lisp_t;
}

static struct alisp_object * F_dump_objects(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = car(args);

if (p != &alsa_lisp_nil && &cdr(args) == &alsa_lisp_nil &&
alisp_compare_type(p, ALISP_OBJ_STRING)) {
if (strlen(p->value.s) > 0) {
dump_obj_lists(instance, p->value.s);
delete_tree(instance, args);
return &alsa_lisp_t;
} else
lisp_warn(instance, "expected filename");
} else

lisp_warn(instance, "wrong number of parameters (expected string)");

delete_tree(instance, args);
return &alsa_lisp_nil;
}

struct intrinsic {
const char *name;
struct alisp_object * (*func)(struct alisp_instance *instance, struct alisp_object * args);
};

static const struct intrinsic intrinsics[] = {
{ "!=" , F_numneq },
{ "%" , F_mod },
{ "&check-memory" , F_check_memory },
{ "&dump-memory" , F_dump_memory },
{ "&dump-objects" , F_dump_objects },
{ "&stat-memory" , F_stat_memory },
{ "*" , F_mul },
{ "+" , F_add },
{ "-" , F_sub },
{ "/" , F_div },
{ "<" , F_lt },
{ "<=" , F_le },
{ "=", F_numeq },
{ ">" , F_gt },
{ ">=" , F_ge },
{ "and" , F_and },
{ "assoc" , F_assoc },
{ "assq" , F_assq },
{ "atom" , F_atom },
{ "car" , F_car },
{ "cdr" , F_cdr },
{ "compare-strings" , F_compare_strings },
{ "concat" , F_concat },
{ "cond" , F_cond },
{ "cons" , F_cons },
{ "defun" , F_defun },
{ "eq" , F_eq },
{ "equal" , F_equal },
{ "eval" , F_eval },
{ "exfun" , F_exfun },
{ "format" , F_format },
{ "funcall" , F_funcall },
{ "garbage-collect" , F_gc },
{ "gc" , F_gc },
{ "if" , F_if },
{ "include" , F_include },
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#include "alisp_snd.c"

static int compar(const void *p1, const void *p2)
{
    return strcmp(((struct intrinsic *)p1)->name,
        ((struct intrinsic *)p2)->name);
}

static inline struct alisp_object * eval_cons1(struct alisp_instance *instance, struct alisp_object * p1, struct alisp_object * p2)
{
    struct alisp_object * p3;
    struct intrinsic key, *item;

    key.name = p1->value.s;
    if ((item = bsearch(&key, intrinsics,
        sizeof intrinsics / sizeof intrinsics[0],
        sizeof intrinsics[0], compar)) != NULL) {

delete_object(instance, p1);
return item->func(instance, p2);
}

if ((item = bsearch(&key, snd_intrinsics,
sizeof snd_intrinsics / sizeof snd_intrinsics[0],
sizeof snd_intrinsics[0], compar)) != NULL) {
delete_object(instance, p1);
return item->func(instance, p2);
}

if ((p3 = get_object(instance, p1)) != &alsa_lisp_nil) {
delete_object(instance, p1);
return eval_func(instance, p3, p2);
} else {
lisp_warn(instance, "function `%s' is undefined", p1->value.s);
delete_object(instance, p1);
delete_tree(instance, p2);
}

return &alsa_lisp_nil;
}

/*
 * Syntax: (funcall function args...)
 */

static struct alisp_object * F_funcall(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

if (!alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) &&
!alisp_compare_type(p, ALISP_OBJ_STRING)) {
lisp_warn(instance, "expected an function name");
delete_tree(instance, p);
delete_tree(instance, cdr(args));
delete_object(instance, args);
return &alsa_lisp_nil;
}

p1 = cdr(args);
delete_object(instance, args);
return eval_cons1(instance, p, p1);
}

static inline struct alisp_object * eval_cons(struct alisp_instance *instance, struct alisp_object * p)
{
struct alisp_object * p1 = car(p), * p2;

if (p1 != &alsa_lisp_nil & & alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER)) {
if (!strcmp(p1->value.s, "lambda"))
return p;

p2 = cdr(p);
delete_object(instance, p);
return eval_cons1(instance, p1, p2);
} else {
delete_tree(instance, p);
}

return &alsa_lisp_nil;
}

static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p)
{
switch (alisp_get_type(p)) {
case ALISP_OBJ_IDENTIFIER: {
struct alisp_object *r = incref_tree(instance, get_object(instance, p));
delete_object(instance, p);
return r;
}
case ALISP_OBJ_INTEGER:
case ALISP_OBJ_FLOAT:
case ALISP_OBJ_STRING:
case ALISP_OBJ_POINTER:
return p;
case ALISP_OBJ_CONS:
return eval_cons(instance, p);
default:
break;
}
return p;
}

static struct alisp_object * F_eval(struct alisp_instance *instance, struct alisp_object * args)
{
return eval(instance, eval(instance, car(args)));
}

/*
* main routine
*/

static int alisp_include_file(struct alisp_instance *instance, const char *filename)
{
snd_input_t *old_in;
struct alisp_object *p, *p1;
char *name;
int retval = 0, err;

err = snd_user_file(filename, &name);
if (err < 0)
    return err;
old_in = instance->in;
err = snd_input_stdio_open(&instance->in, name, "r");
if (err < 0) {
    retval = err;
    goto _err;
}
if (instance->verbose)
    lisp_verbose(instance, "% include filename \"%s\"", name);

for (;;) {
    if ((p = parse_object(instance, 0)) == NULL)
        break;
    if (instance->verbose) {
        lisp_verbose(instance, "% code");
        prin_object(instance->vout, p);
        snd_output_putc(instance->vout, '\n');
    }
p1 = eval(instance, p);
    if (p1 == NULL) {
        retval = -ENOMEM;
        break;
    }
    if (instance->verbose) {
        lisp_verbose(instance, "% result");
        prin_object(instance->vout, p1);
        snd_output_putc(instance->vout, '\n');
    }
    delete_tree(instance, p1);
    if (instance->debug) {
        lisp_debug(instance, "% objects after operation");
        print_obj_lists(instance, instance->dout);
    }
}

snd_input_close(instance->in);
_err:
free(name);
instance->in = old_in;
return retval;

int alsa_lisp(struct alisp_cfg *cfg, struct alisp_instance **instance)
struct alisp_instance *instance;
struct alisp_object *p, *p1;
int i, j, retval = 0;

instance = (struct alisp_instance *)calloc(1, sizeof(struct alisp_instance));
if (instance == NULL) {
    nomem();
    return -ENOMEM;
}

instance->verbose = cfg->verbose && cfg->vout;
instance->warning = cfg->warning && cfg->wout;
instance->debug = cfg->debug && cfg->dout;
instance->in = cfg->in;
instance->out = cfg->out;
instance->vout = cfg->vout;
instance->eout = cfg->eout;
instance->wout = cfg->wout;
instance->dout = cfg->dout;
INIT_LIST_HEAD(&instance->free_objs_list);
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
    for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
        INIT_LIST_HEAD(&instance->used_objs_list[i][j]);
    INIT_LIST_HEAD(&instance->setobjs_list[i]);
}

init_lex(instance);

for (;;) {
    if ((p = parse_object(instance, 0)) == NULL)
        break;
    if (instance->verbose) {
        lisp_verbose(instance, "** code");
        princ_object(instance->vout, p);
        snd_output_putchar(instance->vout, '\n');
    }
    p1 = eval(instance, p);
    if (p1 == NULL) {
        retval = -ENOMEM;
        break;
    }
    if (instance->verbose) {
        lisp_verbose(instance, "** result");
        princ_object(instance->vout, p1);
        snd_output_putchar(instance->vout, '\n');
    }
    delete_tree(instance, p1);
    if (instance->debug) {

lisp_debug(instance, "** objects after operation");
print_obj_lists(instance, instance->dout);
}

if (_instance)
*_instance = instance;
else
alsa_lisp_free(instance);

return retval;
}

void alsa_lisp_free(struct alisp_instance *instance)
{
if (instance == NULL)
return;
done_lex(instance);
free_objects(instance);
free(instance);
}

struct alisp_cfg *alsa_lisp_default_cfg(snd_input_t *input)
{
snd_output_t *output, *eoutput;
struct alisp_cfg *cfg;
int err;

err = snd_output_stdio_attach(&output, stdout, 0);
if (err < 0)
return NULL;
err = snd_output_stdio_attach(&eoutput, stderr, 0);
if (err < 0) {
snd_output_close(output);
return NULL;
}
cfg = calloc(1, sizeof(struct alisp_cfg));
if (cfg == NULL) {
snd_output_close(eoutput);
snd_output_close(output);
return NULL;
}
cfg->out = output;
cfg->wout = eoutput;
cfg->eout = eoutput;
cfg->dout = eoutput;
cfg->in = input;
return cfg;
void alsa_lisp_default_cfg_free(struct alisp_cfg *cfg)
{
    snd_input_close(cfg->in);
    snd_output_close(cfg->out);
    snd_output_close(cfg->dout);
    free(cfg);
}

int alsa_lisp_function(struct alisp_instance *instance, struct alisp_seq_iterator **result,
                        const char *id, const char *args, ...)
{
    int err = 0;
    struct alisp_object *aargs = NULL, *obj, *res;

    if (args && *args != '\n') {
        va_list ap;
        struct alisp_object *p;
        p = NULL;
        va_start(ap, args);
        while (*args) {
            if (*args++ != '%') {
                err = -EINVAL;
                break;
            }
            if (*args == '\0') {
                err = -EINVAL;
                break;
            }
            obj = NULL;
            err = 0;
            switch (*args++) {
                case 's':
                    obj = new_string(instance, va_arg(ap, char *));
                    break;
                case 'i':
                    obj = new_integer(instance, va_arg(ap, int));
                    break;
                case 'l':
                    obj = new_integer(instance, va_arg(ap, long));
                    break;
                case 'f':
                case 'd':
                    obj = new_integer(instance, va_arg(ap, double));
                    break;
                case 'p': {
                    char _ptrid[24];
                    break;
                }
            }  
        }
    }
    obj = NULL;
    err = 0;
    switch (*args++) {
        case 's':
            obj = new_string(instance, va_arg(ap, char *));
            break;
        case 'i':
            obj = new_integer(instance, va_arg(ap, int));
            break;
        case 'l':
            obj = new_integer(instance, va_arg(ap, long));
            break;
        case 'f':
        case 'd':
            obj = new_integer(instance, va_arg(ap, double));
            break;
        case 'p': {
            char _ptrid[24];
            break;
        }
    }
char *ptrid = _ptrid;
while (*args && *args != '%')
    *ptrid++ = *args++;
*ptrid = 0;
if (ptrid == _ptrid) {
    err = -EINVAL;
    break;
}
obj = new_cons_pointer(instance, _ptrid, va_arg(ap, void *));
obj = quote_object(instance, obj);
break;
}
default:
    err = -EINVAL;
    break;
}
if (err < 0)
    goto __args_end;
if (obj == NULL) {
    err = -ENOMEM;
    goto __args_end;
}
if (p == NULL) {
    p = aargs = new_object(instance, ALISP_OBJ_CONS);
} else {
    p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
    p = p->value.c.cdr;
}
if (p == NULL) {
    err = -ENOMEM;
    goto __args_end;
}
p->value.c.car = obj;
}
__args_end:
va_end(ap);
if (err < 0)
    return err;
#if 0
    snd_output_printf(instance->wout, ">>>")
    princ_object(instance->wout, aargs);
    snd_output_printf(instance->wout, "<<<\n")
#endif
}
err = -ENOENT;
if (aargs == NULL)
aargs = &alsa_lisp_nil;
if ((obj = get_object1(instance, id)) != &alsa_lisp_nil) {
    res = eval_func(instance, obj, aargs);
    err = 0;
} else {
    struct intrinsic key, *item;
    key.name = id;
    if (((item = bsearch(&key, intrinsics,
                             sizeof intrinsics / sizeof intrinsics[0],
                             sizeof intrinsics[0], compar)) != NULL) {
        res = item->func(instance, aargs);
        err = 0;
    } else if (((item = bsearch(&key, snd_intrinsics,
                                sizeof snd_intrinsics / sizeof snd_intrinsics[0],
                                sizeof snd_intrinsics[0], compar)) != NULL) {
        res = item->func(instance, aargs);
        err = 0;
    } else {
        res = &alsa_lisp_nil;
    }
}
if (res == NULL)
    err = -ENOMEM;
if (err == 0 && result) {
    *result = res;
} else {
    delete_tree(instance, res);
}
return 0;
}

void alsa_lisp_result_free(struct alisp_instance *instance,
                            struct alisp_seq_iterator *result)
{
    delete_tree(instance, result);
}

int alsa_lisp_seq_first(struct alisp_instance *instance, const char *id,
                         struct alisp_seq_iterator **seq)
{
    struct alisp_object * p1;

    p1 = get_object1(instance, id);
    if (p1 == NULL)
        return -ENOMEM;
    *seq = p1;
    return 0;
}
int alsa_lisp_seq_next(struct alisp_seq_iterator **seq)
{
    struct alisp_object * p1 = *seq;

    p1 = cdr(p1);
    if (p1 == &alsa_lisp_nil)
        return -ENOENT;
    *seq = p1;
    return 0;
}

int alsa_lisp_seq_count(struct alisp_seq_iterator *seq)
{
    int count = 0;

    while (seq != &alsa_lisp_nil) {
        count++;
        seq = cdr(seq);
    }
    return count;
}

int alsa_lisp_seq_integer(struct alisp_seq_iterator *seq, long *val)
{
    if (alisp_compare_type(seq, ALISP_OBJ_CONS))
        seq = seq->value.c.cdr;
    if (alisp_compare_type(seq, ALISP_OBJ_INTEGER))
        *val = seq->value.i;
    else
        return -EINVAL;
    return 0;
}

int alsa_lisp_seq_pointer(struct alisp_seq_iterator *seq, const char *ptr_id, void **ptr)
{
    struct alisp_object * p2;

    if (alisp_compare_type(seq, ALISP_OBJ_CONS) &&
        alisp_compare_type(seq->value.c.car, ALISP_OBJ_CONS))
        seq = seq->value.c.car;
    if (alisp_compare_type(seq, ALISP_OBJ_CONS)) {
        p2 = seq->value.c.car;
        if (!alisp_compare_type(p2, ALISP_OBJ_STRING))
            return -EINVAL;
        if (strcmp(p2->value.s, ptr_id))
            return -EINVAL;
        p2 = seq->value.c.cdr;
    }
if (!alisp_compare_type(p2, ALISP_OBJ_POINTER))
return -EINVAL;
*ptr = (void *)seq->value.ptr;
} else
return -EINVAL;
return 0;
}

From RPM File Metadata: LGPLv2+

1.10 zstd 1.3.8

1.10.1 Available under license:

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1.11 search-guard-ssl 5.6.2-23

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1.13 jcl-over-slf4j 1.7.12

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1.15 fdisk 2.23.2-61.el7_7.1

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266e2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optional): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optional): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebfb7248e05d6e626749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

```
Device  Boot  Start  End    Blocks   Id  System
__ts_dev__1  2048  4095   1024   83  Linux
__ts_dev__2  4096 20479   8192   a5  FreeBSD
```

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end   size  fstype  [fsize bsize  cpg]
c: 4096 20479  16384  unused 0 0
d: 0 16064  16065  unused 0 0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end   size  fstype  [fsize bsize  cpg]
a: 4096 6144  2049  4.2BSD 0 0 0
c: 4096 20479  16384  unused 0 0
```
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

BSD disklabel command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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1.16 jna 3.5.2-8

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copy of the library already present on the user's computer system,
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### 1.20 jaxb-api 2.3.0

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1.27 libxshmfence 1.2 1.el7

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1.28 gpm 1.20.7 6.el7

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
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Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.39 gawk 4.0.2-4.el7_3.1
1.39.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don’t assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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, under Section 2) 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.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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.)

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
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) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
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It may happen that this requirement contradicts the license
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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A "covered work" means either the unmodified Program or a work based on the Program.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
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c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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  src/preproc/grn/gprint.h
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The -mdoc macro set, using the BSD license.
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. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
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. The file `tmac/hyphen.fr' contains the same patterns as the file
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
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1.54 jackson-jaxrs-json-provider 2.9.6

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Jackson is a high-performance, Free/Open Source JSON processing library.
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1.55 pycurl 7.19.0-19.el7

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1.59 libxi 1.1.3 2.1.el7

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1.71 hk2-locator 2.4.0

1.72 spring-framework 5.0.5

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* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources-jar/org/springframework/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources-jar/org/springframework/asm/AnnotationWriter.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources-jar/org/springframework/asm/ByteVector.java
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* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/AttributeAccessor.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/ParameterNameDiscoverer.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/style/DefaultValueStyler.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/SpringVersion.java
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* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
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  jar/org/springframework/core/type/MethodMetadata.java
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  jar/org/springframework/util/AutoPopulatingList.java
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* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources-jar/org/springframework/core/env/PropertySources.java
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  jar/org/springframework/core/ExceptionDepthComparator.java
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* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/cglib/SpringCglibInfo.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/env/MapPropertySource.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/io/support/ResourcePatternResolver.java

No license file was found, but licenses were detected in source scan.

/
* Copyright 2002-2007 the original author or authors.
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources.jar/org/springframework/core/io/support/ResourcePatternResolver.java
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/*
 * Copyright 2002-2008 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
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 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources- jar/org/springframework/core/NamedInheritableThreadLocal.java
* /opt/ws_local/PERMITS_SQL/1001218755_1591903383.83/0/spring-core-5-0-5-release-sources- jar/org/springframework/core/NamedThreadLocal.java

1.73 cracklib 2.9.0-11.el7
1.73.1 Available under license :

-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
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> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> library to dictact to application writes what license they should
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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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> much other than cleaning up the packaging and patches and a small
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> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
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> I'd also suggest the LGPL, for the reason you noted above. Alternately,
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> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.
>
> Cheers,
>
> Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

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>> In any case, I thank you both for working on sorting this out.
> >
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> > the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

-------------------

----------------------------------------------------------------------

----------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
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University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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Nathan Neulinger is the only one who can actually make said change ...

-mike

----------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL FROM ARTISTIC.
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-) 

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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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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1.79 glibc 2.17

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1.82 javax-ws-rs-api 2.0.1

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jar/com/tdunning/math/stats/AbstractTDigest.java
* /opt/ws_local/PERMITS_SQL/1018364061_1591904638.73/0/t-digest-3-2-sources-
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1.95 jackson-annotations 2.10.1

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1.99 flink-shaded-jackson 2.10.1

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1.100 jackson-databind 2.9.8

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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1.101 simpleclient-httpserver 0.3.0

1.102 flink-shaded-curator 1.9.2
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1.104 jackson-dataformat-yaml 2.8.6

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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1.107 jackson-databind 2.9.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.108 metrics-jersey2 3.1.2

1.109 gtk 2.24.31 1.el7

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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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.

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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.

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1.135 joda-time 2.10.1

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Joda.org (https://www.joda.org/).

1.136 perl 5.16.3-293.el7
1.136.1 Available under license :

    use strict;
    use lib 't/lib';
    use MBTest;
    use DistGen;

    plan 'no_plan';

    # Ensure any Module::Build modules are loaded from correct directory
    blib_load('Module::Build');

    #-----------------------------------------------#
    # Create test distribution
    #-----------------------------------------------#
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}[license], "http://dev.perl.org/licenses/",
    "META license URL is correct"
);

my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}[license], "http://example.com/vaporware/",
    "META license URL is correct"
);
# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.137 netty-resolver 4.1.13

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1.138 jackson-datatype-jsr310 2.9.8

1.139 json-cpp 0.10.5-2

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1.140 numpy 1.18.2

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# MT19937

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
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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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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++
Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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```
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
```

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1.154 atk 2.28.1 1.el7

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1.156 perl-exporter 5.68 3.el7

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1.157 python 2.7.17-1.el7.0atomix2

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.159 bzip2 1.0.6-13.el7atomix1

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.160 wayland 1.15.0-1.el7

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1.164 j2objc-annotations 1.1

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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the `<b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the `<b>strong</b> font". 

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`. 

For a subclass to support metadata, typical behavior of `replace()` is the following:

<ul>
Set the metadata of the new text to the metadata of the first character replaced.

If no characters are replaced, use the metadata of the previous character.

If there is no previous character (i.e. start == 0), use the following character.

If there is no following character (i.e. the replaceable was empty), use default metadata.

If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata.

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }
}
public final String getName() { return null; }

public void checkGuard(Object obj) throws SecurityException { }

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);

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1.166 metrics-logback 3.1.2

1.167 spring-context-support 5.0.5

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1.173 jersey-metainf-services 2.22.1

1.174 jackson-jaxrs-json-provider 2.6.3

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.175 jackson-databind 2.10.2
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1.176 jersey-client 2.22.1

1.177 yum 3.4.3 163.el7.centos

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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
  except Errors.RepoMDError:
      continue # No metadata found for this repo
+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
+    def get_notices(self, name=None):
+        """Return all notices. """
+        if name is None:
+            @ @ -434,16 +438,29 @ @
+            class UpdateMetadata(object):
+                name = oldpkgtup[0]
+                arch = oldpkgtup[1]
+                ret = []
+                other_arch_list = []
+                notices = set()
+                for notice in self.get_notices(name):
+                    for upkg in notice['pkglist']:
+                        other_arch = False
+                        if pkg['name'] != name or pkg['arch'] != arch:
+                            continue
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = True
+                        else:
+                            continue
+                        pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
+                                  pkg['version'], pkg['release'])
+                        if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
+                            continue
-                        ret.append((pkgtup, notice))
+                        if other_arch:
+                            other_arch_list.append((pkgtup, notice))
+                        else:
+                            ret.append((pkgtup, notice))
+                            notices.add(notice)
+                for pkgtup, notice in other_arch_list:
+                    if notice not in notices:
+                        ret.append((pkgtup, notice))
+                ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
+                return ret
+
+diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage
def safe_iterparse(filename, logger=None):
diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     A single update notice (for instance, a security fix).
     
- def __init__(self, elem=None):
-     def __init__(self, elem=None, repoid=None, vlogger=None):
+     self._md = {
+         'from'  : '',
+         'type'  : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
         if elem:
             self._parse(elem)
+     self._repoid = repoid
+     self._vlogger = vlogger
+
     def __getitem__(self, item):
         """ Allows scriptable metadata access (ie: un['update_id']). """
         if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
 # Tests to see if it's "the same data", which means that the
 # packages can be different (see add_notice).
+
+     def _rid(un):
+         if hasattr(un, '_repoid') and un._repoid is not None:
+             return un._repoid
+         else:
+             return '<unknown>'
+
+     def _log_failure(data):
+         """Log the mismatched data similarly to conflict markers in git."""
+         if self._vlogger is None:
+             return
+         msg = _('Duplicate of %s differs in some fields:
')
+             msg %= other._md['update_id']
+             msg += '<<<<<<< %s:%s
' % (self._vlogger, data)
+             msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+             msg += '>>>>>>> %s:%s' % (self._vlogger, data)
+             # --verbose mode enables this
+             self._vlogger.log(logginglevels.DEBUG_3, msg)
+         if not other or not hasattr(other, '_md'):
+             return False
@@ -113,6 +134,7 @@ class UpdateNotice(object):
            # FIXME: See below...
            continue
            if self._md[data] != other._md[data]:
+                _log_failure(data)
        return False
    # FIXME: Massive hack, Fedora is really broken and gives status=stable
    # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
        data = 'status'
        if self._md[data] != other._md[data]:
            if self._md[data] not in ('stable', 'testing'):
+                _log_failure(data)
            return False
            if other._md[data] not in ('stable', 'testing'):
+                _log_failure(data)
            return False
    # They are both really "stable" ...
        self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
            if elem.tag == 'update':
                try:
                    - un = UpdateNotice(elem)
+                    un = UpdateNotice(elem, repoid, self._vlogger)
                except UpdateNoticeException, e:
                    msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                    if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                msg += _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
                _rid(repoid))
                if not have_dup:
                    msg += _("\nYou should report this problem to the owner of the %srepository.\") % _rid(repoid, "%s ")
+                    msg += _("\nIf you are the owner, consider re-running the same command with --verbose to see the \'
+                        'exact data that caused the conflict.\")
                have_dup = True
                if self._vlogger:
                    self._vlogger.warn("%s", msg)

1.178 iputils 20160308 10.el7
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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1989
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1.181 compiler 0.9.3

1.182 jzlib 1.1.1

1.183 centos-release-virt-common 1-1.el7.centos

1.184 guava 20.0

1.184.1 Available under license:

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1.189 pam 1.1.8 22.el7
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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
built_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
 generated_by: 'Module::Build version 0.3608'
 license: gpl
 meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*\b\d{4,}\b/ or die "Year not found in README copyright message $copyright_msg";
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
1.191 free-type 2.9.1-8.el7.0atomix1

1.191.1 Available under license:

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2006-Jan-27

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David Turner, Robert Wilhelm, and Werner Lemberg

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===
```

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#
# Don't put empty lines into this file!
#
.gitignore
# builds/unix/pkg.m4
# docs/FTL.TXT
docs/GPLv2.TXT
# include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
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Arnaud LE HORS      BULL Research FRANCE -- Koala Project
   (XPM - X PixMap format version 2 & 3)
   Internet:      lehors@sophia.inria.fr
Surface Mail:     Arnaud LE HORS, INRIA - Sophia Antipolis, 
                  2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE 
Voice phone:      (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F 
*uganda.txt*     For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL    by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are 
encouraged to make a donation for needy children in Uganda. Please see |kcc| 
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for 
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see 
[manual-copyright].

=== begin of license ===

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I) There are no restrictions on distributing unmodified copies of Vim except 
that they must include this license text. You can also distribute 
unmodified parts of Vim, likewise unrestricted except that they must 
include this license text. You are also allowed to include executables 
that you made from the unmodified Vim sources, plus your own usage 
examples and Vim scripts.
II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
   e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or
any later version.
3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:
- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
    [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
    A few minor changes have been made since he checked it, but that should not
    make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
    further distribution to the GNU GPL. Also when you didn't actually change
    anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
    further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
    contact information with the "--with-modified-by" configure argument or the
    MODIFIED_BY define.
Kibaale Children’s Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a
I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in

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Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruehihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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    Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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We call this license the "Lesser" General Public License because it
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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, under Section 2) 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.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also 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
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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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.

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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.

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1.197 slf4j 1.7.25

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.214 perl-encode 2.51 7.el7

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1.215 jaxb-runtime 2.3.0

1.216 jackson 2.10.2

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1.217 argparse 0.6.0

1.218 device-mapper-multipath 0.4.9-127.el7
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1.220 jackson-annotations 2.9.6

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1.221 unzip 6.0-20.el7.0atomix2

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."
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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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---------------------------------------------------------------------

1.222 safec 4.0.45-20190507155256.el7
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1.223 cups 1.6.3 40.el7

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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1.224 curl 7.59.0

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License Mixing

=============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

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[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
not have the announcement clause that collides with GPL.

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Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
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### 1.225 spring-boot-starter-cache 2.0.1

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User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1               Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

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==============
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftpsgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.231 javapackages-tools 3.4.1 11.el7

1.231.1 Available under license :

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
1.232 util-linux 2.23.2-61.el7_7.1

1.232.1 Available under license:

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The complete text of the license is available at the Documentation/licenses/COPYING.BSD-3 file.

Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2df055067c18f2ef9 bsd.img
---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start   End     Blocks  Id  System
-------------

Create 1st primary partition
ada6ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start   End     Blocks  Id  System
__ts_dev__1  2048   4095    1024   83  Linux
-------------

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dd51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start   End     Blocks  Id  System
__ts_dev__1  2048   4095    1024   83  Linux
__ts_dev__2  4096   20479   8192   a5  FreeBSD
-------------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

**Command (m for help):**

**BSD disklabel command (m for help):**

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
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</table>

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---layout---------

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<th>size</th>
<th>fstype</th>
<th>[fsize bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a:</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c:</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d:</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

**BSD disklabel command (m for help):**

**Command (m for help):**

---layout---------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

**Command (m for help):**

**BSD disklabel command (m for help):**
BSD disklabel command (m for help):
/*
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 *
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 * modification, are permitted provided that the following conditions
 * are met:
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 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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 * SUCH DAMAGE.
*/
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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The End

1.237 pth 2.0.7-23.el7

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```
| _ \|_/ |    ```Ian Fleming was a UNIX fan!
| | |` |` \   How do I know? Well, James Bond
| `-|`| | | had the (license to kill) number 007,
| |    \__| |    i.e., he could execute anyone!```

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1.243 netty-buffer 4.1.13

1.244 httpcore-nio 4.4.5

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1.250 jackson-dataformat-yaml 2.8.11

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1.252 jackson-dataformat-cbor 2.8.6

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lib/gssapi/generic/gssapi_err_generic.et
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_inquire_context.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/kproplg.c

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Full name: Jeanfrancois Arcand
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Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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iD8DBQFE85cgaq9Frj/CIrIRamuJAKCFgi4W0UOH8IUn+SV6PBHRF3BnLgLcDqQChG
Zokttk0bTHfwaa5TtxQbScw=
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iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNt2oN59WZVitJExGJjUvKgCfaKji6etDJ6Auj0jTuS159hUsWMQ=
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E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Schedule A

Name                                     Date added
Simone Bordet                            12 September 2006

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Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit.jsr715
org.eclipse.jetty.orbit.jsr715

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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 */

1.272 jersey-media-jaxb 2.25.1

1.273 libxcomposite 0.4.4 4.1.el7

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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, under Section 2) 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.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also 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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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.

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.

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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This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or
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If distribution of object code is made by offering access to copy
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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1.295 libxi 1.7.9-1.el7

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1.296 reflectasm 1.09
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1.305 libglvnd 1.0.1 0.8.git5baa1e5.el7

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</head>
<body>
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1.311 zlib 1.2.3

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 version 1.2.11, January 15th, 2017

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1.312 spring-expression 5.0.5
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1.313 libssh 0.7.1-7.el7

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1.320 errors 0.8.1

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1.335 slf4j 1.8.0-alpha2

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1.336 libfontenc 1.1.3-3.el7

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1.339 avatica-core 1.15.0

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1.341 dropwizard-jackson 0.9.2

1.342 openjdk 1.8.0u242
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Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
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Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
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Markus Heule <markus.heule@gmail.com>
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Jean-loup Gailly       Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- web-app_3_1.xsd
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1.353 cglib 2.2.2

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1.354 cyrus-sasl 2.1.26 23.el7

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1.355 flink-shaded-guava 18.0

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1.357 harfbuzz 1.7.5-2.el7

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1.359 sed 4.2.2 5.el7
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1.369 libsepol 2.5 10.el7

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**1.379 jackson 2.9.8**

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jar/org/objectweb/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/MethodWriter.java
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jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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*/
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 *            the owner's class name.
 * @param access
 *            the method's access flags (see [@link Opcodes]).
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see [@link Type Type]).
 * @param mv
 *            the method visitor to which this adapter delegates calls. May
 *            be <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/util/ASMifiable.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/Textifiable.java

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* /
/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 * *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])\}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 *
 * @param access
 * the method's access flags (see @link Opcodes)). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see @link Type).
 *
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
 * @link Type#getInternalName() getInternalName()). May be
 * <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 * @throws IllegalArgumentException
 * If a subclass calls this constructor.
 */

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1.397 cassandra-driver-core 3.0.0

1.398 jersey-server 2.22.1

1.399 dropwizard-configuration 0.9.2

1.400 libcap-ng 0.7.5 4.el7
1.400.1 Available under license :

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.405 e2fsprogs 1.42.9 16.el7

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) 
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
 $(RM) -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ..../$(BSD_LIB)

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Theodore Ts'o
23-June-2007

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

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 /*
 */
- Unix SMB/CIFS implementation.
trivial database library - standalone version

trivial database library - private includes

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

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1.407 c-ares 1.12.1-DEV
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1998-05-11
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1.423 libdrm 2.4.97-2.el7

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1.425 metrics-json 3.1.2

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `\{ case (a, b) => ... }`
val x: ((Int, Int) => Int) = (((a, b)) => a)
^<br>not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
^<br>not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple3,
    or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^<br>three errors found
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1.428 diffutils 3.3 5.el7

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From RPM File Metadata: GPLv3+

/* diff - compare files line by line

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progranme.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS 
  proper_name ("Paul Eggert"), \
  proper_name ("Mike Haertel"), \
  proper_name ("David Hayes"), \
  proper_name ("Richard Stallman"), \
  proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
  char *regexps;/* chars representing disjunction of the regexps */
  size_t len;/* chars used in 'regexps' */
  size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
  bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
  struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). 
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
(--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
 Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abBcCdDeEfFhHiI:I:nNpPqrsStTuU:vwW:x:X:yZ"

/* Values for long options that do not have single-letter equivalents. */
enum
{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO_IGNORE_FILE_NAME_CASE_OPTION,
    NORMAL_OPTION,
    SDIFF_MERGE_ASSIST_OPTION,
    STRIP_TRAILING_CR_OPTION,
    SUPPRESS_BLANK_EMPTY_OPTION,
    SUPPRESS_COMMON_LINES_OPTION,
    TABSIZE_OPTION,
    TO_FILE_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_LINE_FORMAT_OPTION,
    OLD_LINE_FORMAT_OPTION,
    NEW_LINE_FORMAT_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_GROUP_FORMAT_OPTION,
    OLD_GROUP_FORMAT_OPTION,
    NEW_GROUP_FORMAT_OPTION,
}
static char const group_format_option[ sizeof "--unchanged-group-format" ] = 
    { "--unchanged-group-format", "--old-group-format", "--new-group-format", "--changed-group-format" };

static char const line_format_option[ sizeof "--unchanged-line-format" ] = 
    { "--unchanged-line-format", "--old-line-format", "--new-line-format" };

static struct option const longopts[] = 
    { { "binary", 0, 0, BINARY_OPTION }, { "brief", 0, 0, 'q' }, 
      { "changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION }, { "context", 2, 0, 'C' }, 
      { "ed", 0, 0, 'e' }, { "exclude", 1, 0, 'x' }, 
      { "exclude-from", 1, 0, 'X' }, { "expand-tabs", 0, 0, 't' }, 
      { "forward-ed", 0, 0, 'f' }, { "from-file", 1, 0, FROM_FILE_OPTION }, 
      { "help", 0, 0, HELP_OPTION }, { "horizon-lines", 1, 0, HORIZON_LINES_OPTION }, 
      { "ifdef", 1, 0, 'D' }, { "ignore-all-space", 0, 0, 'w' }, 
      { "ignore-blank-lines", 0, 0, 'B' }, { "ignore-case", 0, 0, 'i' }, 
      { "ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION }, 
      { "ignore-matching-lines", 1, 0, 'I' }, { "ignore-space-change", 0, 0, 'b' }, 
      { "ignore-tab-expansion", 0, 0, 'E' }, { "ignore-trailing-space", 0, 0, 'Z' }, 
      { "inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION }, 
      { "initial-tab", 0, 0, 'T' }, { "label", 1, 0, 'L' }, 
      { "left-column", 0, 0, LEFT_COLUMN_OPTION }, { "line-format", 1, 0, LINE_FORMAT_OPTION }, 
      { "minimal", 0, 0, 'd' }, { "new-file", 0, 0, 'N' } };
/* Return a string containing the command options with which diff was invoked. 
Spaces appear between what were separate ARGV-elements.
There is a space at the beginning but none at the end.
If there were no options, the result is an empty string.

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, 
the length of that vector. */

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;
for (i = 0; i < count; i++)
size += 1 + shell_quote_length (optionvec[i]);

p = result = xmalloc (size);

for (i = 0; i < count; i++)
{
  *p++ = ' '; 
  p = shell_quote_copy (p, optionvec[i]);
}

*p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
  return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
  int exit_status = EXIT_SUCCESS;
  int c;
  int i;
  int prev = -1;
  lin ocontext = -1;
  bool explicit_context = false;
  size_t width = 0;
  bool show_c_function = false;
  char const *from_file = NULL;
  char const *to_file = NULL;
  uintmax_t numval;
  char *numend;

  /* Do our initializations. */
  exit_failure = EXIT_TROUBLE;
  initialize_main (&argc, &argv);
  set_program_name (argv[0]);
  setlocale (LC_ALL, "");
  bindtextdomain (PACKAGE, LOCALEDIR);
  textdomain (PACKAGE);
  c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */

while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
    case 0:
        break;
    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;
    case 'a':
        text = true;
        break;
    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;
    case 'Z':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TRAILING_SPACE;
        break;
    case 'B':
        ignore_blank_lines = true;
        break;
case 'C':
case 'U':
{
    if (optarg)
    {
        numval = strtolmax (optarg, &numend, 10);
        if (*numend)
            try_help ("invalid context length \"%s\"", optarg);
        if (LIN_MAX < numval)
            numval = LIN_MAX;
    }
    else
        numval = 3;

    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
    {
        context = numval;
        explicit_context = true;
    }
}
break;

case 'c':
specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
break;

case 'd':
    minimal = true;
break;

case 'D':
specify_style (OUTPUT_IFDEF);
{
    static char const C_ifdef_group_formats[] =
        "%%=%c ifndef %s
%%<#endif /* ! %s */
%c#ifdef %s
%%>#endif /* %s */
%cifndef %s
%%<#else /* %s */
%%>#endif /* %s */
";
    char *b = xmalloc (sizeof C_ifdef_group_formats
                        + 7 * strlen (optarg) - 14 /* 7*"%s" */ - 8 /* 5*"%c" */);
    sprintf (b, C_ifdef_group_formats, 0, optarg, optarg, 0,
             optarg, optarg, optarg, optarg);
    for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
        group_format[i] = b[i];
specify_value (&group_format[i], b, ":D");
        b += strlen (b) + 1;
    }
    break;

    case 'e':
        specify_style (OUTPUT_ED);
        break;

    case 'E':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space |= IGNORE_TAB_EXPANSION;
        break;

    case 'f':
        specify_style (OUTPUT_FORWARD_ED);
        break;

    case 'F':
        add_regexp (&function_regexp_list, optarg);
        break;

    case 'h':
        /* Split the files into chunks for faster processing.
           Usually does not change the result.
           
           This currently has no effect. */
        break;

    case 'H':
        speed_large_files = true;
        break;

    case 'i':
        ignore_case = true;
        break;

    case 'I':
        add_regexp (&ignore_regexp_list, optarg);
        break;

    case 'l':
        if (!pr_program[0])
            try_help ("pagination not supported on this host", NULL);
        paginate = true;
        #ifdef SIGCHLD
        /* Pagination requires forking and waiting, and
System V fork+wait does not work if SIGCHLD is ignored. */
signal (SIGCHLD, SIG_DFL);
#endif
break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^\[[:alpha:]$_\]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':

expand_tabs = true;
break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
        exclude_options (), 'n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
        { 
            if (width)
                fatal ("conflicting width options");
            width = numval;
        }
    break;
case BINARY_OPTION:
#if O_BINARY
    binary = true;
if (! isatty (STDOUT_FILENO))
    set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
break;

case LEFT_COLUMN_OPTION:
    left_column = true;
break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
break;
case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF MERGE ASSIST OPTION:
    specify_style (OUTPUT SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP TRAILING CR OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS BLANK EMPTY OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS COMMON LINES OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize '%s'", optarg);
    if (tabsize != numval)
        { if (tabsize)
            fatal ("conflicting tabsize options");
            tabsize = numval;
        }
    break;

case TO_FILE OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED LINE_FORMAT OPTION:
case OLD LINE_FORMAT OPTION:
case NEW LINE_FORMAT OPTION:
    specify_style (OUTPUT_IFDEF);
    c = UNCHANGED_LINE_FORMAT OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;
case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
c -= UNCHANGED_GROUP_FORMAT_OPTION;
specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);

    prev = c;

}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \\
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S,%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
else
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";

}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
context = ocontext;

if (!tabsize)
tabsize = 8;
if (!width)
width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

       1. Two half lines plus a gutter must fit in a line.
       2. If the half line width is nonzero:
           a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
           b. If tabs are not expanded to spaces,
              a half line plus a gutter is an integral number of tabs,
              so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

    /* Make the horizon at least as large as the context, so that
       shift_boundaries has more freedom to shift the first and last hunks. */
    if (horizon_lines < context)
        horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        if (!line_format[i])
            line_format[i] = "%\n";
    if (!group_format[OLD])
        group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD],

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group_format[NEW], ""); 
}

no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
(*group_format[UNCHANGED]
 || (STREQ (group_format[UNCHANGED], "%=") && !*line_format[UNCHANGED])))
: (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexps || ignore_white_space));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
fatal ("--from-file and --to-file both specified");
else
for (; optind < argc; optind++)
    {
        int status = compare_files (NULL, from_file, argv[optind]);
        if (exit_status < status)
            exit_status = status;
    }
}
else
{
    if (to_file)
for (; optind < argc; optind++)
    {
        int status = compare_files (NULL, argv[optind], to_file);
        if (exit_status < status)
            exit_status = status;
    }
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
            try_help ("missing operand after \"%s\"", argv[argc - 1]);
        else
            try_help ("extra operand \"%s\"", argv[optind + 2]);
    }
exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
}

/* Print any messages that were saved up for last. */
print_message_queue ();
check_stdout ();
extit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;
        if (size <= newlen)
        {
            if (!$size)
                size = 1;
            do size *= 2;
            while (size <= newlen);
            reglist->size = size;
            reglist->regexps = regexps = xrealloc (regexps, size);
        }
        if (multiple_regexps)
        {
            regexps[len++] = '\n';
            regexps[len++] = '|';
        }
        memcpy (regexps + len, pattern, patlen + 1);
    }
static void
summarize_regexp_list (struct regexp_list *reglist)
{
if (reglist->regexps)
{
/* At least one regexp was specified. Allocate a fastmap for it. */
reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
if (reglist->multiple_regexps)
{
/* Compile the disjunction of the regexps.
(If just one regexp was specified, it is already compiled.) */
char const *m = re_compile_pattern (reglist->regexps, reglist->len,
reglist->buf);
if (m)
error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
}
}

static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, "Try '%s --help' for more information.",
program_name);
abort ();
}

static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
pfatal_with_name ("standard output");
}

static char const * const option_help_msgid[] = {
N_("    --normal                  output a normal diff (the default)",
N_("-q, --brief                   report only when files differ"),
N_("-s, --report-identical-files  report when two files are the same"),
N_("-c, -C NUM, --context[NUM]   output NUM (default 3) lines of copied context"),
N_("-u, -U NUM, --unified[NUM] output NUM (default 3) lines of unified context"),
N_("-e, --ed output an ed script"),
N_("-n, --rcs output an RCS format diff"),
N_("-y, --side-by-side output in two columns"),
N_("-W, --width=NUM output at most NUM (default 130) print columns"),
N_(" --left-column output only the left column of common lines"),
N_(" --suppress-common-lines do not output common lines"),
"
N_("-p, --show-c-function show which C function each change is in"),
N_("-F, --show-function-line=RE show the most recent line matching RE"),
N_(" --label LABEL use LABEL instead of file name n" (can be repeated)),
"
N_("-t, --expand-tabs expand tabs to spaces in output"),
N_("-T, --initial-tab make tabs line up by prepending a tab"),
N_(" --tabsize=NUM tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty suppress space or tab before empty output lines"),
N_("-l, --paginate pass output through 'pr' to paginate it"),
"
N_("-r, --recursive recursively compare any subdirectories found"),
N_(" --no-dereference don't follow symbolic links"),
N_("-N, --new-file treat absent files as empty"),
N_(" --unidirectional-new-file treat absent first files as empty"),
N_(" --ignore-file-name-case ignore case when comparing file names"),
N_(" --no-ignore-file-name-case consider case when comparing file names"),
N_("-x, --exclude=PAT exclude files that match PAT"),
N_("-X, --exclude-from=FILE exclude files that match any pattern in FILE"),
N_("-S, --starting-file=FILE start with FILE when comparing directories"),
N_(" --from-file=FILE1 compare FILE1 to all operands; n" FILE1 can be a directory"),
N_(" --to-file=FILE2 compare all operands to FILE2; n" FILE2 can be a directory"),
"
N_("-i, --ignore-case ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change ignore changes in the amount of white space"),
N_("-w, --ignore-all-space ignore all white space"),
N_("-B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
"
N_("-a, --text treat all files as text"),
N_(" --strip-trailing-cr strip trailing carriage return on input"),
#if O_BINARY
N_(" --binary read and write data in binary mode"),
#endif
"
N_("-D, --ifdef=NAME output merged file with '#ifdef NAME' diffs"),
N_("  --GTYPE-group-format=GFMT  format GTYPE input groups with GFMT"),
N_("  --line-format=LFMT       format all input lines with LFMT"),
N_("  --LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_("  These format options provide fine-grained control over the output
  "  " of diff, generalizing -D/-i\ifdef."),
N_("  LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed'."),
N_("  GFMT (only) may contain:\n    %<  lines from FILE1\n    %>  lines from FILE2\n    %=  lines common to FILE1 and FILE2\n  LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed'.")
N_("  GFMT (only) may contain:\n    %<  lines from FILE1\n    %>  lines from FILE2\n    %=  lines common to FILE1 and FILE2\n    %[-][WIDTH][.[PREC]][(doxX)]LETTER  printf-style spec for LETTER\n    LETTERs are as follows for new group, lower case for old group:\n    F  first line number\n    L  last line number\n    N  number of lines = L-F+1\n    E  F-1\n    M  L+1\n    %((A=B?T:E) if A equals B then T else E),
N_("  LFMT (only) may contain:\n    %L  contents of line\n    %l  contents of line, excluding any trailing newline\n    %[-][WIDTH][.[PREC]][(doxX)]n  printf-style spec for input line number"),
N_("  Both GFMT and LFMT may contain:\n    %\%\n    %c'C'  the single character C\n    %c'\OOO'  the character with octal code OOO\n    C  the character C (other characters represent themselves)"),
"  
N_("-d, --minimal         try hard to find a smaller set of changes"),
N_("  --horizon-lines=NUM  keep NUM lines of the common prefix and suffix"),
N_("  --speed-large-files  assume large files and many scattered small changes"),
"  
N_("--help              display this help and exit"),
N_("  --version     output version information and exit"),
"  
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR.'"),
N_("  If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("  If a FILE is '-', read standard input."),
N_("  Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
0
};

static void
usage (void)
{
  char const * const *p;

  printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
printf ("%s\n", (_("Compare FILES line by line."))); 

fputs (_("\n Mandatory arguments to long options are mandatory for short options too.\n "), stdout); 

for (p = option_helpmsgid; *p; p++) 
{ 
    if (!*p) 
putchar ("\n"); 
else 
{ 
    char const *msg = _(*p); 
char const *nl; 
while ((nl = strchr (msg, "\n"))) 
{ 
    int msglen = nl + 1 - msg; 
    printf ("%.*s", msglen, msg); 
    msg = nl + 1; 
} 

printf ("%s\n" + 2 * (*msg != ' ' && *msg != '-'), msg); 
} 
} 
emit_bug_reporting_address (); 

/* Set VAR to VALUE, reporting an OPTION error if this is a conflict. */ 
static void 
specify_value (char const **var, char const *value, char const *option) 
{ 
if (*var && !STREQ (*var, value)) 
{ 
    error (0, 0, _("conflicting %s option value \"%s\""), option, value); 
    try_help (NULL, NULL); 
} 
*var = value; 
} 

/* Set the output style to STYLE, diagnosing conflicts. */ 
static void 
specify_style (enum output_style style) 
{ 
if (output_style != style) 
{ 
    if (output_style != OUTPUT_UNSPECIFIED) 
try_help ("conflicting output style options", NULL); 
}
static void
set_mtime_to_now (struct stat *st)
{
#if defined STAT_TIMESPEC
  gettime (&STAT_TIMESPEC (st, st_mtim));
#else
  struct timespec t;
  gettime (&t);
  st->st_mtime = t.tv_sec;
#endif
#if defined STAT_TIMESPEC_NS
  STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
#elif defined HAVE_STRUCT_STAT_ST_SPARE1
  st->st_spare1 = t.tv_nsec / 1000;
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
   and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
  struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
  register int f;
  int status = EXIT_SUCCESS;
  bool same_files;
  char *free0;
  char *free1;

  /* If this is directory comparison, perhaps we have a file
     that exists only in one of the directories.
     If so, just print a message to that effect. */
if (! ((name0 && name1) || (unidirectional_new_file && name1) || new_file))
{
    char const *name = name0 ? name0 : name1;
    char const *dir = parent->file[!name0].name;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %s
", dir, name);

    /* Return EXIT_FAILURE so that diff_dirs will return
     * EXIT_FAILURE ("some files differ"). */
    return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size =
                        MAX (0, cmp.file[f].stat.st_size - pos);
                }
            }
        }
    }
    else if ((no_dereference_symlinks
                ? lstat (cmp.file[f].name, &cmp.file[f].stat)
                : stat (cmp.file[f].name, &cmp.file[f].stat))
            != 0)
            cmp.file[f].desc = ERRNO_ENCODE (errno);
}

/* Mark files as nonexistent as needed for -N and -P, if they are inaccessible empty regular files (the kind of files that 'patch' creates to indicate nonexistent backups), or if they are
for (f = 0; f < 2; f++)
if ((new_file || (f == 0 && &unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
? (S_ISREG (cmp.file[f].stat.st_mode)
   && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
   && cmp.file[f].stat.st_size == 0)
   : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
       || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
       && ! parent
       && (cmp.file[1 - f].desc == UNOPENED
           || cmp.file[1 - f].desc == STDIN_FILENO)))
   cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
if (cmp.file[f].desc == NONEXISTENT)
{
    memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
    cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
}

for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) ! DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
fatal ("cannot compare '-' to a directory");
if ((no_dereference_symlinks

? lstat (filename, &cmp.file[dir_arg].stat)

: stat (filename, &cmp.file[dir_arg].stat))

!= 0)

{
    perror_with_name (filename);
    status = EXIT_TROUBLE;
}
}

if (status != EXIT_SUCCESS)

{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT

&& cmp.file[1].desc == NONEXISTENT)

{
    /* Neither file "exists", so there's nothing to compare. */
}
else if (((same_files

= (cmp.file[0].desc != NONEXISTENT

&& cmp.file[1].desc != NONEXISTENT

&& 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)

&& same_file_attributes (&cmp.file[0].stat,

&cmp.file[1].stat))

&& no_diff_means_no_output)

{
    /* The two named files are actually the same physical file.
     We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))

{
    if (output_style == OUTPUT_IFDEF)
        fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)

    {
        /* But don't compare dir contents one level down unless -r was specified.
         See POSIX 1003.1-2001 for this format. */
        message ("Common subdirectories: %s and %s\n", cmp.file[0].name, cmp.file[1].name);
    }
else
    status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
        && !((S_ISREG (cmp.file[0].stat.st_mode)
            || S_ISLNK (cmp.file[0].stat.st_mode))
        && (S_ISREG (cmp.file[1].stat.st_mode)
            || S_ISLNK (cmp.file[1].stat.st_mode))))
  {
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
      {
        /* We have a subdirectory that exists only in one directory. */
        }
  if ((DIR_P (0) | DIR_P (1))
      && recursive
      && (new_file
          || (unidirectional_new_file
              && cmp.file[0].desc == NONEXISTENT)))
    status = diff_dirs (&cmp, compare_files);
  else
    {
      char const *dir;

      /* PARENT must be non-NULL here. */
      assert (parent);
      dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

      /* See POSIX 1003.1-2001 for this format. */
      message ("Only in %s: %s
          ", dir, name0);

      status = EXIT_FAILURE;
    }
  }
else
  {
    /* We have two files that are not to be compared. */

    /* See POSIX 1003.1-2001 for this format. */
    message5 ("File %s is a %s while file %s is a %s
        ",
          file_label[0] ? file_label[0] : cmp.file[0].name,
          file_type (&cmp.file[0].stat),
          file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
  }
else if (S_ISLNK (cmp.file[0].stat.st_mode)
        || S_ISLNK (cmp.file[1].stat.st_mode))

/* Old block */
if (description (buffer, offset, len)
    && (offset < len))
  {
    /* buffer points to the item's description. */
    char const *file_label;

    if (strlen (file_label) > len)
      return 0;
    else if (strlen (file_label) == len)
      return 1;
    else
      return 0;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %s

        ", file_label, file_label);

    /* This is a difference. */
    status = EXIT_FAILURE;
  }
if (S_ISLNK (cmp.file[0].stat.st_mode)
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* Compare the values of the symbolic links. */
    char *link_value[2] = { NULL, NULL };

    for (f = 0; f < 2; f++)
    {
        link_value[f] = xreadlink (cmp.file[f].name);
        if (link_value[f] == NULL)
        {
            perror_with_name (cmp.file[f].name);
            status = EXIT_TROUBLE;
            break;
        }
    }

    if (status == EXIT_SUCCESS)
    {
        if ( ! STREQ (link_value[0], link_value[1]))
        {
            message ("Symbolic links %s and %s differ\n", 
                     cmp.file[0].name, cmp.file[1].name);
            /* This is a difference. */
            status = EXIT_FAILURE;
        }
    }

    for (f = 0; f < 2; f++)
        free (link_value[f]);
}
else
{
    /* We have two files that are not to be compared, because
     * one of them is a symbolic link and the other one is not. */

    message5 ("File %s is a %s while file %s is a %s\n", 
              file_label[0] ? file_label[0] : cmp.file[0].name, 
              file_type (&cmp.file[0].stat),
              file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
}
else if (files_can_be_treated_as_binary
&& S_ISREG (cmp.file[0].stat.st_mode)
&& S_ISREG (cmp.file[1].stat.st_mode)
&& cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n",
     file_label[0] ? file_label[0] : cmp.file[0].name,
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
    if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (cmp.file[1].desc == UNOPENED)
    {
        if (same_files)
        cmp.file[1].desc = cmp.file[0].desc;
        else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[1].name);
            status = EXIT_TROUBLE;
        }
    }

    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);

    /* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc

&& close (cmp.file[1].desc) != 0)
{
  perror_with_name (cmp.file[1].name);
  status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it, 
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
  if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical
", 
  file_label[0] ? file_label[0] : cmp.file[0].name, 
}
else
{
  /* Flush stdout so that the user sees differences immediately. 
This can hurt performance, unfortunately. */
  if (fflush (stdout) != 0)
  pfatal_with_name (_("standard output"));
}

free (free0);
free (free1);

return status;

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Version 3, 29 June 2007

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1.434 log4j-slf4j-impl 2.10.0

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1.435 protobuf-java 3.2.0

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David Anderson <danderson@google.com>
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Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
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# This file contains a list of people who've made non-trivial # contribution to the Google C++ Testing Framework project. People # who commit code to the project are encouraged to add their names # here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <ji@东方财富.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimke <klimke@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikael Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@gmail.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotr@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>
Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
* Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
* Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
* Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
* Heuristic detection of sub-messages when printing unknown fields in
text format.
Brian Atkinson <nairb774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
* Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
* Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing
  all fields (only present with certain compiler settings).
* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acxpthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.475 hwdata 0.252 9.3.el7

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### Jdom-contrib version 1.1.3

The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The two files are LineNumberElement.java and LineNumberSAXHandler.java.

Typical users of this library will not need to depend on this module.


### GeoTools

JTS includes some code from the GeoTools project. This code has been licensed to the JTS project under the OSGeo BSD License [2] by the GeoTools PSC [3,4].


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The textbook (containing a proof that the shuffle is uniformly random) is available here:

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1.501 hibernate-validator 6.0.9

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1.503 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.504 elastic-search 5.6.2

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The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. 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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Appendix: How to Apply These Terms to Your New Programs

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) 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.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also 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.

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.

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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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
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From friedman@gnu.ai.mit.edu Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.
The lyf so short, the craft so long to lerne." - Chaucer

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From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu> )
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1) id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

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1.514 spring-context 5.0.5
1.514.1 Available under license:

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* Merlin Hughes
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  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.527 cryptsetup 2.0.3 5.el7

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1.531 jackson-databind 2.6.3
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### 1.532 jackson 2.10.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

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1.533 httpcomponents-client 4.5.2
1.533.1 Available under license :

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1.534 t-digest 3.0
1.534.1 Available under license :

   No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/AVLGroupTree.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/TreeDigest.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/GroupTree.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/TDigest.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/ArrayDigest.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/Centroid.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/AVLTreeDigest.java
* /opt/ws_local/PERMITS_SQL/1018364062_1591903485.79/0/t-digest-3-0-sources-
  jar/com/tdunning/math/stats/AbstractTDigest.java

1.535 jetty-http 9.2.22.v20170606

1.536 vim 7.4.629-7.el7
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Arnaud LE HORS     BULL Research FRANCE -- Koala Project

(XPM - X PixMap format version 2 & 3)

Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:   (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

*uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06

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http://www.vim.org/iccf/
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==============================================================================
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water.
and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
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Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
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Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.537 javax-inject 2.5.0
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1.540 glib 2.56.1-5.el7_7.0atomix2

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1.548 pcre 8.32 17.el7

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@page
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c ispell-local-pdict: "ispell-dict"
c End:

1.553 perl 1.04 294.el7_6

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#!/perl
=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();
# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>
    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
    or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.557 metrics-health-checks 3.1.2

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1.563 lz4-java 1.5.0

1.564 spring-kafka 2.1.9

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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1.576 log4j-api 2.11.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
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
kprop/kpropd_rpc.c
kprop/kproplog.c

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    cmd/kg5/slave/kpropd_rpc.c
    lib/gss_mechs/mec_krb5/et/kdb5_err.c
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    lib/libgss/g_accept_sec_context.c
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    lib/libgss/g exp_sec_context.c
    lib/libgss/g export_name.c
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1.588 curl 7.69.1-1.el7_7.0atomix1
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I am not a lawyer and this is not legal advice!

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**1.589 perl-getopt-long 2.40 3.el7**

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