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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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1.5 Carl Kindman XML parse lib 1
1.5.1 Available under license :
/*------------------------------------------------------------------*/
/* cnshal_xml_datetime.c - CNS XML dateTime and duration datatypes */
/* June 2003, Steve Berl */
/* Copyright (c) 2003-2009 by cisco Systems, Inc. */
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/*------------------------------------------------------------------*/
#include COMP_INC(posix, cpu_types.h)
#include COMP_INC(posix, inttypes.h)
#include COMP_INC(posix, string.h)
#include COMP_INC(kernel, ios_kernel_types.h)
#include COMP_INC(kernel, clock.h)      /* for clock_epoch struct */
#include COMP_INC_ALT(kernel/memory/include/free.h)
typedef unsigned char hal_xmlChar;
static inline void *hal_xmlMalloc (uint size)
{
    return (malloc(size));
}

static inline void hal_xmlFree (void *ptr)
{
    free(ptr);
}

/*
 * schemastypes.c : implementation of the XML Schema Datatypes
 * definition and validity checking
 */
typedef enum {
    HAL_XML_SCHEMAS_UNKNOWN = 0,
    HAL_XML_SCHEMAS_TIME,
    HAL_XML_SCHEMAS_GDAY,
    HAL_XML_SCHEMAS_GMONTH,
    HAL_XML_SCHEMAS_GMONTHDAY,
    HAL_XML_SCHEMAS_GYEAR,
    HAL_XML_SCHEMAS_GYEARMONTH,
    HAL_XML_SCHEMAS_DATE,
    HAL_XML_SCHEMAS_DATETIME,
    HAL_XML_SCHEMAS_DURATION,
    HAL_XML_SCHEMAS_,
    HAL_XML_SCHEMAS_XXX
} hal_xmlSchemaValType;

#define POWERTEN ARY SIZE 10
unsigned long hal_powten[POWERTEN ARY SIZE] = {
    1, 10, 100, 1000, 10000, 100000, 1000000, 10000000L,
    100000000L, 1000000000L
};

/* Date value */
typedef struct _hal_xmlSchemaValDate hal_xmlSchemaValDate;
typedef hal_xmlSchemaValDate *hal_xmlSchemaValDatePtr;
struct _hal_xmlSchemaValDate {
    long		year;
    unsigned int	mon	:4; /* 1 <=  mon    <= 12   */
    unsigned int	day	:5; /* 1 <=  day    <= 31   */
    unsigned int	hour	:5; /* 0 <=  hour   <= 23   */
    unsigned int	min	:6; /* 0 <=  min    <= 59	*/
    unsigned int	sec;
    int			tz_flag	:1; /* is tzo explicitely set? */
    int			tzo	:11; /* -1440 <= tzo <= 1440 */
};

/* Duration value */
typedef struct _hal_xmlSchemaValDuration hal_xmlSchemaValDuration;
typedef hal_xmlSchemaValDuration *hal_xmlSchemaValDurationPtr;
struct _hal_xmlSchemaValDuration {
    long			mon; /* mon stores years also */
    long		day;
    long		sec; /* sec stores min and hour also */
typedef struct _hal_xmlSchemaValDecimal hal_xmlSchemaValDecimal;
typedef hal_xmlSchemaValDecimal *hal_xmlSchemaValDecimalPtr;
struct _hal_xmlSchemaValDecimal {
    /* would use long long but not portable */
    unsigned long base;
    unsigned int extra;
    unsigned int sign:1;
    int frac:7;
    int total:8;
};

typedef struct _hal_xmlSchemaVal hal_xmlSchemaVal;
typedef hal_xmlSchemaVal *hal_xmlSchemaValPtr;
struct _hal_xmlSchemaVal {
    hal_xmlSchemaValType type;
    union {
        hal_xmlSchemaValDate date;
        hal_xmlSchemaValDuration dur;
    } value;
};

/**
 * hal_xmlSchemaNewValue:
 * @type: the value type
 *
 * Allocate a new simple type value
 *
 * Returns a pointer to the new value or NULL in case of error
 */
static hal_xmlSchemaValPtr
hal_xmlSchemaNewValue(hal_xmlSchemaValType type) {
    hal_xmlSchemaValPtr value;

    value = (hal_xmlSchemaValPtr)hal_xmlMalloc(sizeof(hal_xmlSchemaVal));
    if (value == NULL) {
        return(NULL);
    }
    memset(value, 0, sizeof(hal_xmlSchemaVal));
    value->type = type;
    return(value);
}

/**
 * hal_xmlSchemaFreeValue:
 * @value: the value to free
 *
/* Cleanup the default XML Schemas type library */

void
halxmlSchemaFreeValue(hal_xmlSchemaValPtr value) {
    if (value == NULL)
        return;
    hal_xmlFree(value);
}

/*************************************************************************************************
								*
		Convenience macros and functions		*
								*
************************************************************************************************/

#define IS_TZO_CHAR(c)                      
   ((c == 0) || (c == 'Z') || (c == '+') || (c == '-'))

#define VALID_YEAR(yr)                     (yr != 0)
#define VALID_MONTH(mon)                   ((mon >= 1) && (mon <= 12))
/* VALID_DAY should only be used when month is unknown */
#define VALID_DAY(day)                     ((day >= 1) && (day <= 31))
#define VALID_HOUR(hr)                     ((hr >= 0) && (hr <= 23))
#define VALID_MIN(min)                     ((min >= 0) && (min <= 59))
#define VALID_SEC(sec)                     ((sec >= 0) && (sec < 60))
#define VALID_TZO(tzo)                     ((tzo > -1440) && (tzo < 1440))
#define IS_LEAP(yr)                        ((y % 4 == 0) && (y % 100 != 0)) || (y % 400 == 0))
#define DAYINMONTH_ARY_SIZE 12
static const long daysInMonth[DAYINMONTH_ARY_SIZE] =
{ 31, 28, 31, 30, 31, 30, 31, 30, 31, 30, 31, 31 };
static const long daysInMonthLeap[DAYINMONTH_ARY_SIZE] =
{ 31, 29, 31, 30, 31, 30, 31, 30, 31, 30, 31, 31 };
#define MAX_DAYINMONTH(yr,mon)            
   (IS_LEAP(yr) ? daysInMonthLeap[mon - 1] : daysInMonth[mon - 1])

#define VALID_MDAY(dt)                    
   (IS_LEAP(dt->year) ?
    (dt->day <= daysInMonthLeap[dt->mon - 1]) :
    (dt->day <= daysInMonth[dt->mon - 1]))

#define VALID_DATE(dt)                    
   (VALID_YEAR(dt->year) && VALID_MONTH(dt->mon) && VALID_MDAY(dt))

#define VALID_TIME(dt)                    
   (VALID_YEAR(dt->year) && VALID_MONTH(dt->mon) &&
    VALID_HOUR(dt->hour) && VALID_MIN(dt->min) &&
    VALID_SEC(dt->sec) && VALID_TZO(dt->tzo))
#define VALID_DATETIME(dt)
(VALID_DATE(dt) && VALID_TIME(dt))

#define SECS_PER_MIN  (60)
#define SECS_PER_HOUR (60 * SECS_PER_MIN)
#define SECS_PER_DAY  (24 * SECS_PER_HOUR)

#ifdef DEBUG
#define DEBUG_DATE(dt)
  \ xmlGenericError(xmlGenericErrorContext, "type=%o %04ld-%02u-%02uT%02u:%02u:%03f", dt->type, dt->value.date.year, dt->value.date.mon, dt->value.date.day, dt->value.date.hour, dt->value.date.min, dt->value.date.sec);
  \ if (dt->value.date.tz_flag)
    \ if (dt->value.date.tzo != 0)
      \ xmlGenericError(xmlGenericErrorContext, "%+05d\n", dt->value.date.tzo);
    \ else
      \ xmlGenericError(xmlGenericErrorContext, "Z\n");
  \ else
    \ xmlGenericError(xmlGenericErrorContext, "\n")
#endif
#define DEBUG_DATE(dt)

/**
 * hal_xmlSchemaParseGYear:
 * @dt: pointer to a date structure
 * @str: pointer to the string to analyze
 *
 * Parses a xs:gYear without time zone and fills in the appropriate
 * field of the @dt structure. @str is updated to point just after the
 * xs:gYear. It is supposed that @dt->year is big enough to contain
 * the year.
 *
 * Returns 0 or the error code
 */

static int
hal_xmlSchemaParseGYear (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
  const hal_xmlChar *cur = *str, *firstChar;
  int isneg = 0, digcnt = 0;

  if (((*cur < '0') || (*cur > '9')) && (*cur != '-') && (*cur != '+'))
    return -1;
if (*cur == '-') {  
isneg = 1;  
cur++;  
}

firstChar = cur;

while ((*cur >= '0') && (*cur <= '9')) {  
dt->year = dt->year * 10 + (*cur - '0');  
cur++;  
digcnt++;  
}

/* year must be at least 4 digits (CCYY); over 4  
* digits cannot have a leading zero. */  
if ((digcnt < 4) || ((digcnt > 4) && (*firstChar == '0')))  
return 1;

if (isneg)  
dt->year = - dt->year;

if (!VALID_YEAR(dt->year))  
return 2;

*str = cur;  
return 0;
}

/**
* PARSE_2_DIGITS:
* @num: the integer to fill in  
* @cur: an #hal_xmlChar *  
* @invalid: an integer  
*  
* Parses a 2-digits integer and updates @num with the value. @cur is  
* updated to point just after the integer.  
* In case of error, @invalid is set to %TRUE, values of @num and  
* @cur are undefined.  
*/
#define PARSE_2_DIGITS(num, cur, invalid)					
if ((cur[0] < '0') || (cur[0] > '9') ||
    (cur[1] < '0') || (cur[1] > '9'))
    invalid = 1;
else
    num = (cur[0] - '0') * 10 + (cur[1] - '0');
cur += 2;
/**
* PARSE_FLOAT:
* @num: the double to fill in
* @cur: an #hal_xmlChar *
* @invalid: an integer
*
* Parses a float and updates @num with the value. @cur is
* updated to point just after the float. The float must have a
* 2-digits integer part and may or may not have a decimal part.
* In case of error, @invalid is set to %TRUE, values of @num and
* @cur are undefined.
*/

/* IOS doesn't have FLOAT, so we will not use this. */
#ifdef notdef
#define PARSE_FLOAT(num, cur, invalid)
 PARSE_2_DIGITS(num, cur, invalid);
 if (!invalid && (*cur == '.')) {
   double mult = 1;
   cur++;
   if ((*cur < '0') || (*cur > '9'))
     invalid = 1;
   while ((*cur >= '0') && (*cur <= '9')) {
     mult /= 10;
     num += (*cur - '0') * mult;
     cur++;
   }
 }
#endif

/* Here is the alternate version for IOS. We ignore a "." */
#define PARSE_FLOAT(num, cur, invalid)
 PARSE_2_DIGITS(num, cur, invalid);
 if (!invalid && (*cur == '.')) {
   cur++;
   if ((*cur < '0') || (*cur > '9'))
     invalid = 1;
   while ((*cur >= '0') && (*cur <= '9')) {
     cur++;
   }
 }

/**
 * hal_xmlSchemaParseGMonth:
 * @dt: pointer to a date structure
 * @str: pointer to the string to analyze
 *
 * Parses a xs:gMonth without time zone and fills in the appropriate
 * field of the @dt structure. @str is updated to point just after the
 * xs:gMonth.
 */


static int hal_xmlSchemaParseGMonth (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str;
    int ret = 0;

    PARSE_2_DIGITS(dt->mon, cur, ret);
    if (ret != 0)
        return ret;

    if (!VALID_MONTH(dt->mon))
        return 2;

    *str = cur;
    return 0;
}

/**
* hal_xmlSchemaParseGDay:
* @dt: pointer to a date structure
* @str: pointer to the string to analyze
*
* Parses a xs:gDay without time zone and fills in the appropriate
* field of the @dt structure. @str is updated to point just after the
* xs:gDay.
*
* Returns 0 or the error code
*/
static int hal_xmlSchemaParseGDay (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str;
    int ret = 0;

    PARSE_2_DIGITS(dt->day, cur, ret);
    if (ret != 0)
        return ret;

    if (!VALID_DAY(dt->day))
        return 2;

    *str = cur;
    return 0;
}

/**
* hal_xmlSchemaParseTime:
* @dt: pointer to a date structure
* @str: pointer to the string to analyze
*/
* @str: pointer to the string to analyze

* Parses a xs:time without time zone and fills in the appropriate
* fields of the @dt structure. @str is updated to point just after the
* xs:time.
* In case of error, values of @dt fields are undefined.
* Returns 0 or the error code
*/

static int hal_xmlSchemaParseTime (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str;
    unsigned int hour = 0; /* use temp var in case str is not xs:time */
    int ret = 0;

    PARSE_2_DIGITS(hour, cur, ret);
    if (ret != 0)
        return ret;
    if (*cur != ':')
        return 1;
    cur++;

    /* the ':' insures this string is xs:time */
    dt->hour = hour;

    PARSE_2_DIGITS(dt->min, cur, ret);
    if (ret != 0)
        return ret;
    if (*cur != ':')
        return 1;
    cur++;

    PARSE_FLOAT(dt->sec, cur, ret);
    if (ret != 0)
        return ret;
    if (!VALID_TIME(dt))
        return 2;

    *str = cur;
    return 0;
}

/**
 * hal_xmlSchemaParseTimeZone:
 * @dt: pointer to a date structure
 */
static int hal_xmlSchemaParseTimeZone (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = str ? *str : NULL;
    int ret = 0;
    /*
    * time zone is optional
    */
    if (str == NULL)
        return 0;
    switch (*cur) {
    case 0:
        dt->tz_flag = 0;
        dt->tzo = 0;
        break;
    case 'Z':
        dt->tz_flag = 1;
        dt->tzo = 0;
        cur++;
        break;
    case '+':
    case '-': {
        int isneg = 0, tmp = 0;
        isneg = (*cur == '-');
        cur++;
        PARSE_2_DIGITS(tmp, cur, ret);
        if (ret != 0)
            return ret;
        if (!VALID_HOUR(tmp))
            return 2;
        if (*cur != ':')
            return 1;
        cur++;
        break;
    }
    }
}

/*
* @str: pointer to the string to analyze
*
* Parses a time zone without time zone and fills in the appropriate
* field of the @dt structure. @str is updated to point just after the
* time zone.
*
* Returns 0 or the error code
*/
dt->tzo = tmp * 60;

PARSE_2_DIGITS(tmp, cur, ret);
if (ret != 0)
    return ret;
if (!VALID_MIN(tmp))
    return 2;

dt->tzo += tmp;
if (isneg)
    dt->tzo = -dt->tzo;

if (!VALID_TZO(dt->tzo))
    return 2;

dt->tz_flag = 1;
break;
} default:
return 1;
}

*str = cur;
return 0;
}

/XML Schema Dates/Times Datatypes Handling
/****************************************************************
**
* PARSE_DIGITS:
* @num: the integer to fill in
* @cur: an #hal_xmlChar *
* @num_type: an integer flag
*
* Parses a digits integer and updates @num with the value. @cur is
* updated to point just after the integer.
* In case of error, @num_type is set to -1, values of @num and
* @cur are undefined.
**/
#define PARSE_DIGITS(num, cur, num_type)	                \
if ((*cur < '0') || (*cur > '9'))			\num_type = -1;/
else	\while ((*(cur >='0') && (*(cur <='9')))
#define PARSE_DIGITS(num, cur, num_type)  \
if (((cur < '0') || (cur > '9')))
    num_type = -1;
else
    while ((cur >= '0') && (cur <= '9')) {
#define PARSE_NUM(num, cur, num_type)
    num = 0;
PARSE_DIGITS(num, cur, num_type);
if (!num_type && (*cur == '.')) {
    num_type = -1;
}

#define RETURN_TYPE_IF_VALID(t)
    if (IS_TZO_CHAR(*cur)) {
        ret = hal_xmlSchemaParseTimeZone(&(dt->value.date), &cur);
        if (ret == 0) {
            if (*cur != 0)
                goto error;
        }
    }

int halxmlSchemaValidateDates (const hal_xmlChar *dateTime, hal_xmlSchemaValPtr *val) {
    hal_xmlSchemaValPtr dt;
    int ret;
    const hal_xmlChar *cur = dateTime;

    #define RETURN_TYPE_IF_VALID(t)
        if (IS_TZO_CHAR(*cur)) {
            ret = hal_xmlSchemaParseTimeZone(&(dt->value.date), &cur);
            if (ret == 0) {
                if (*cur != 0)
                    goto error;
            }
        }
dt->type = t;
    if (val != NULL) *val = dt;
    return 0;
}  

if (dateTime == NULL) return -1;

if ((*cur != '-') && (*cur < '0') && (*cur > '9')) return 1;

dt = hal_xmlSchemaNewValue(HAL_XML_SCHEMAS_UNKNOWN);
if (dt == NULL) return -1;

if ((cur[0] == '-') && (cur[1] == '-')) {
  /*
   * It's an incomplete date (xs:gMonthDay, xs:gMonth or
   * xs:gDay)
   */
  cur += 2;
  /* is it an xs:gDay? */
  if (*cur == '-') { ++cur;
    ret = hal_xmlSchemaParseGDay(&(dt->value.date), &cur);
    if (ret != 0) goto error;
    RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GDAY);
  goto error;
  }

  /* it should be an xs:gMonthDay or xs:gMonth */
  ret = hal_xmlSchemaParseGMonth(&(dt->value.date), &cur);
  if (ret != 0) goto error;
  if (*cur != '-') goto error;
  cur++;
  /* is it an xs:gMonth? */
if (*cur == '-') {
    cur++;
    RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GMONTH);
    goto error;
}

/* it should be an xs:gMonthDay */
ret = hal_xmlSchemaParseGDay(&(dt->value.date), &cur);
if (ret != 0)
    goto error;

RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GMONTHDAY);

goto error;

} /* It's a right-truncated date or an xs:time. */
/* Try to parse an xs:time then fallback on right-truncated dates. */
if (((cur >= '0') && (*cur <= '9')) { 
ret = hal_xmlSchemaParseTime(&(dt->value.date), &cur);
if (ret == 0) {
    /* it's an xs:time */
    RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_TIME);
}
}

/* fallback on date parsing */
cur = dateTime;

ret = hal_xmlSchemaParseGYear(&(dt->value.date), &cur);
if (ret != 0)
    goto error;

/* is it an xs:gYear? */
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GYEAR);

if (*cur != '-')
goto error;
cur++;

ret = hal_xmlSchemaParseGMonth(&(dt->value.date), &cur);
if (ret != 0)
    goto error;

/* is it an xs:gYearMonth? */
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GYEARMONTH);
if (*cur != '-')
goto error;
cur++;

ret = hal_xmlSchemaParseGDay(&dt->value.date, &cur);
if (((ret != 0) || !VALID_DATE((&(dt->value.date)))))
goto error;

/* is it an xs:date? */
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_DATE);

if (*cur != 'T')
goto error;
cur++;

/* it should be an xs:dateTime */
ret = hal_xmlSchemaParseTime(&dt->value.date, &cur);
if (ret != 0)
goto error;

ret = hal_xmlSchemaParseTimeZone(&dt->value.date, &cur);
if (((ret != 0) || (*cur != 0) || !VALID_DATETIME((&(dt->value.date)))))
goto error;

dt->type = HAL_XML_SCHEMAS_DATETIME;

if (val != NULL)
  *val = dt;

return 0;

error:
  if (dt != NULL)
    halxmlSchemaFreeValue(dt);
  return 1;
}

/**
 * halxmlSchemaValidateDuration:
 * @type: the predefined type
 * @duration: string to analyze
 * @val: the return computed value
 *
 * Check that @duration conforms to the lexical space of the duration type.
 * if true a value is computed and returned in @val.
 *
 * Returns 0 if this validates, a positive error code number otherwise
int halxmlSchemaValidateDuration (const hal_xmlChar *duration, hal_xmlSchemaVal *val) {
    const hal_xmlChar  *cur = duration;
    hal_xmlSchemaValPtr dur;
    int isneg = 0;
    unsigned int seq = 0;

    if (duration == NULL)
        return -1;

    if (*cur == '-') {
        isneg = 1;
        cur++;  
    }

    /* duration must start with 'P' (after sign) */
    if (*cur++ != 'P')
        return 1;

    dur = hal_xmlSchemaNewValue(HAL_XML_SCHEMAS_DURATION);
    if (dur == NULL)
        return -1;

    while (*cur != 0) {
        int num;
        int num_type = 0; /* -1 = invalid, 0 = int, 1 = floating */
        const hal_xmlChar  desig[] = {'Y', 'M', 'D', 'H', 'M', 'S'};
        const ulong    multi[] = { 0, 0, 86400, 3600, 60, 1, 0};

        /* input string should be empty or invalid date/time item */
        if (seq >= sizeof(desig))
            goto error;

        /* T designator must be present for time items */
        if (*cur == 'T') {
            if (seq <= 3) {
                seq = 3;
                cur++;
            } else
                goto error;
        } else if (seq == 3)
            goto error;

        /* parse the number portion of the item */
        PARSE_NUM(num, cur, num_type);
if ((num_type == -1) || (*cur == 0))
    goto error;

/* update duration based on item type */
while (seq < sizeof(design)) {
    if (*cur == design[seq]) {

        /* verify numeric type; only seconds can be float */
        if ((num_type != 0) && (seq < (sizeof(design)-1)))
            goto error;

        switch (seq) {
            case 0:
                dur->value.dur.mon = (long)num * 12;
                break;
            case 1:
                dur->value.dur.mon += (long)num;
                break;
            default:
                /* convert to seconds using multiplier */
                dur->value.dur.sec += num * multiplier[seq];
                seq++;
                break;
        }

    } else
        break; /* exit loop */

    /* no date designators found? */
    if (++seq == 3)
        goto error;
}

if (isneg) {
    dur->value.dur.mon = -dur->value.dur.mon;
    dur->value.dur.day = -dur->value.dur.day;
    dur->value.dur.sec = -dur->value.dur.sec;
}

if (val != NULL)
    *val = *dur;

halxmlSchemaFreeValue(dur);

return 0;

error:
if (dur != NULL)
    halxmlSchemaFreeValue(dur);
    return 1;
}

boolean hal_xml_parse_dateTime_datatype (const char * const xml_data,
    clock_epoch *result)
{
    int rc;
    hal_xmlSchemaValPtr val;
    ios_timeval tv;

    if ((xml_data == NULL) || (result == NULL)) {
        /* API error */
        return (FALSE);
    }
    rc = halxmlSchemaValidateDates(xml_data, &val);
    if (rc == -1) {
        /* API error */
        halxmlSchemaFreeValue(val);
        return (FALSE);
    }
    if (rc > 0) {
        /* Data is invalid dateTime */
        /* no need to call halxmlSchemaFreeValue(val); */
        halxmlSchemaFreeValue(val);
        return (FALSE);
    }
    /*
    * val contains the parsed dateTime info.
    * we need to convert it to a clock_epoch
    */
    if (val->value.date.tz_flag) {
        tv.tz_offset = val->value.date.tzo * 60; /* convert minutes to seconds */
    } else {
        tv.tz_offset = 0;
    }
    tv.year =  val->value.date.year;
    tv.month = val->value.date.mon;
    tv.day = val->value.date.day;
    tv.hour = val->value.date.hour;
    tv.minute = val->value.date.min;
    tv.second = val->value.date.sec; /* whole seconds part */
    tv.millisecond = 0; /* fractional part */
    clock_timeval_to_epoch(&tv, result);
    halxmlSchemaFreeValue(val);
    return (TRUE);
}
boolean hal_xml_parse_dateTime_to_timeval (const char * const xml_data,
    ios_timeval *result)
{
    int rc;
    hal_xmlSchemaValPtr val = NULL;
    ios_timeval tv;

    memset(&tv, 0, sizeof(ios_timeval));
    if ((xml_data == NULL) || (result == NULL)) {
        /* API error */
        return (FALSE);
    }
    rc = halxmlSchemaValidateDates(xml_data, &val);
    if (rc == -1) {
        /* API error */
        halxmlSchemaFreeValue(val);
        return (FALSE);
    }
    if (rc > 0) {
        /* Data is invalid dateTime */
        halxmlSchemaFreeValue(val);
        return (FALSE);
    }
    tv.year = val->value.date.year;
    tv.month = val->value.date.mon;
    tv.day = val->value.date.day;
    tv.hour = val->value.date.hour;
    tv.minute = val->value.date.min;
    tv.second = val->value.date.sec; /* whole seconds part */
    tv.millisecond = 0; /* fractional part */
    if (result) {
        *result = tv;
    }
    halxmlSchemaFreeValue(val);
    return (TRUE);
}

boolean hal_xml_parse_duration_datatype (const char * const xml_data,
    ulong *result_seconds)
{
    int rc;
    hal_xmlSchemaVal val;

    if ((xml_data == NULL) || (result_seconds == NULL)) {
        /* API error */
        return (FALSE);
    }
rc = halxmlSchemaValidateDuration(xml_data, &val);
if (rc == -1) {
    /* API error */
    return (FALSE);
}
if (rc > 0) {
    /* Data is invalid duration */
    return (FALSE);
}
/*
* val contains the parsed duration.
* we need to convert it to seconds
*/
if (val.value.dur.mon != 0) {
    /* Can't spec duration in months */
    return (FALSE);
}
if (val.value.dur.sec <= 0) {
    /* Can't spec a negative or 0 duration */
    return (FALSE);
}
*result_seconds = val.value.dur.sec;
return (TRUE);

boolean hal_xml_parse_pos_int_datatype (const char * const xml_data,
    int *result)
{
    char  *cur = (char *)xml_data;
    int isneg = 0;
    int numtype = 0;

    if (xml_data == NULL)
        return FALSE;

    if (*cur == '-') {
        isneg = 1;
        cur++;
    }

    PARSE_NUM(*result, cur, numtype);
    if (isneg) {
        *result = -*result;
    }

    return (0 == numtype);
}
#include <stdio.h>

#define XML_MAX_STRLEN 10000

typedef struct Xml_name_value_pair
{
    char *name, *value;
}
typedef struct Xml_object
{
    char *tag, *contents;
    Xml_name_value_pair *attributes;
    struct Xml_object *parent, *children, *nxt;
} Xml_object;

/*--------------------------------------------*/
/* High-level XML file Read + Write routines. */
/*--------------------------------------------*/

/* Read xml file into xml token-tree. */
Xml_object *Xml_Read_File( char *fname );

/* Write xml token-tree out to xml file. */
void Xml_Write_File( char *fname, Xml_object *object );

/*----------------------------------*/
/* Medium-level Xml Tree functions. */
/*----------------------------------*/

struct xml_private_stack
{
    Xml_object  *current_object,
        *last_child;
    struct xml_private_stack *parent;
};

struct xml_private_tree
{
    struct xml_private_stack *current_parent;
    struct xml_private_tree *traverse_parent;
    Xml_object *root_object, *traverse_node;
    Xml_name_value_pair *lastattrib, *traverse_attrib;
};

/* Functions for constructing new xml trees. */
struct xml_private_tree *xml_tree_init();    /* Call this first. */
void xml_tree_add_tag( struct xml_private_tree *xml_tree, char *tagname );
void xml_tree_add_contents( struct xml_private_tree *xml_tree, char *contents );
void xml_tree_add_attribute( struct xml_private_tree *xml_tree, char *name, char *value );
void xml_tree_begin_children( struct xml_private_tree *xml_tree );
void xml_tree_end_children( struct xml_private_tree *xml_tree );
Xml_object *xml_tree_cleanup( struct xml_private_tree **xml_tree );

/* Functions for traversing xml trees. */
void xml_tree_start_traverse( struct xml_private_tree **xml_tree, Xml_object *roottag,
                          char *tag, char *contents, int maxlen ); /* Call this first. */
int xml_tree_get_next_tag( struct xml_private_tree *xml_tree, char *tag, char *contents, int maxlen );
int xml_tree_get_next_attribute( struct xml_private_tree *xml_tree, char *name, char *value, int maxlen );
int xml_tree_descend_to_child( struct xml_private_tree **xml_tree, char *tag, char *contents, int maxlen );
void xml_tree_ascend( struct xml_private_tree **xml_tree );

/*-----------------------------------*/
/* Lower-level convenience routines. */
/*-----------------------------------*/

/* Get next xml-tag, attributes, and contents from an xml-file. */
void xml_parse( FILE *fileptr, char *tag, char *content, int maxlen, int *linenum );

/* Pull-off tag's name. */
void xml_grab_tag_name( char *tag, char *name, int maxlen );

/* Pull-off next attribute name-value pair, if any, from tag-string. */
void xml_grab_attrib( char *tag, char *name, char *value, int maxlen );

/* Accept frequency, and/or convert units to Hz. Return 1 on success, 0 on failure. */
int accept_frequency( char *wrd, float *freq );

/* Accept power value, and/or convert units to Watts. Return 1 on success, 0 on failure. */
int accept_power( char *wrd, float *pwr );

/* Accept DeciBells value, and/or convert units to linear. Return 1 on success, 0 on failure. */
int accept_dbvalue( char *wrd, float *value, char units );

/* Accept distance or length value, and/or convert units to Meters. Return 1 on success, 0 on failure. */
int accept_distance( char *wrd, float *dist );

/* Accept time value, and/or convert units to Seconds. Return 1 on success, 0 on failure. */
int accept_time( char *wrd, float *t );

/* Accept boolean value from valid char-string answers. */
int accept_boolean( char *word );

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1.7 cd9660 8.18

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*
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*/

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ipcc.c - PPP IP Control Protocol.

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ppp.c - Network Point to Point Protocol program file.

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****************************************************************************

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****************************************************************************/

/*

1.10 Compress-Raw-Zlib 2.060

1.10.1 Available under license :

Compress-Raw-Zlib

Version 2.060

7th January 2013

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

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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!
/* Filename: Zlib.xs
 * Author  : Paul Marquess, <pmqs@cpan.org>
 * Created : 22nd January 1996
 * Version : 2.000
 *
 * Copyright (c) 1995-2013 Paul Marquess. All rights reserved.
 * This program is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 *
 */

/* Parts of this code are based on the files gzio.c and gzappend.c from
 * the standard zlib source distribution. Below are the copyright statements
 * from each.
 */

/* gzio.c -- IO on .gz files
 * Copyright (C) 1995 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

/* gzappend -- command to append to a gzip file

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1.11 crc32.c N/A
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* COPYRIGHT (C) 1986 Gary S. Brown. You may use this program, or
* code or tables extracted from it, as desired without restriction.
* First, the polynomial itself and its table of feedback terms. The
* polynomial is
* X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
* Note that we take it "backwards" and put the highest-order term in
* the lowest-order bit. The X^32 term is "implied"; the LSB is the
* X^31 term, etc. The X^0 term (usually shown as "+1") results in
* the MSB being 1
* Note that the usual hardware shift register implementation, which
* is what we're using (we're merely optimizing it by doing eight-bit
* chunks at a time) shifts bits into the lowest-order term. In our
* implementation, that means shifting towards the right. Why do we
* do it this way? Because the calculated CRC must be transmitted in
* order from highest-order term to lowest-order term. UARTs transmit
* characters in order from LSB to MSB. By storing the CRC this way
* we hand it to the UART in the order low-byte to high-byte; the UART
* sends each low-bit to high-bit; and the result is transmission bit
by bit from highest- to lowest-order term without requiring any bit
shuffling on our part. Reception works similarly

The feedback terms table consists of 256, 32-bit entries. Notes

The table can be generated at runtime if desired; code to do so
is shown later. It might not be obvious, but the feedback
terms simply represent the results of eight shift/xor opera
tions for all combinations of data and CRC register values

The values must be right-shifted by eight bits by the "updcrc
logic; the shift must be unsigned (bring in zeroes). On some
hardware you could probably optimize the shift in assembler by
using byte-swap instructions

 polynomial Sedb88320

1.12 Cron Entry unspecified

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  * user.
  * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
  * I'll try to keep a version up to date. I can be reached as follows:
  * Paul Vixie    <paul@vix.com>     uunet!decwrl!vixie!paul
  */

/* cron.h - header for vixie's cron

* $FreeBSD: src/usr.sbin/cron/cron/cron.h,v 1.8.2.1 1999/08/29 15:40:36 peter Exp $

*/
1.13 CUDD: CU Decision Diagram Package

v2.4.1

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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1.15 e_exp.c, e_log.c (from Sun libmath) 1993

:IOS

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1.16 endian.h (Cat4K AT&T/Sun) 1.0

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1.18 freebsd-tty-headers n/a

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*/
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$FreeBSD: src/sys/sys/ttychars.h,v 1.7 1999/08/28 00:52:06 peter Exp $
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@(#)ttycom.h 8.1 (Berkeley) 3/28/94
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*      @(#)ttydefaults.h     8.4 (Berkeley) 1/21/94
* $FreeBSD: src/sys/sys/ttydefaults.h,v 1.13.2.1 2001/03/06 03:37:08 jkh Exp $
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1.19 ftp.h 4.4BSD?

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   version c10p1, 10 January 1993 */

/* You can do whatever you like with this source file, though I would
prefer that if you modify it and redistribute it that you include comments to that effect with your name and the date. Thank you.
[The history has been moved to the file ChangeLog.]
*/

/* $Id: inflate.c,v 3.2.60.1 1996/03/18 19:11:09 gstovall Exp $ */
/* $Source: /release/111/cvs/Xsys/czip/inflate.c,v $ */

* inflate.c - unzip inflate
*
* December 1994, Michael Beesley
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*
*------------------------------------------------------------------
* $Log: inflate.c,v $
* Revision 3.2.60.1  1996/03/18  19:11:09  gstovall
* Branch: California_branch
* Elvis has left the building. He headed out to California, and took the port ready changes with him.
*
* Revision 3.2.26.2  1996/03/07  08:42:15  mdb
* Branch: DeadKingOnAThrone_branch
cisco and ANSI/POSIX libraries.
*
* Revision 3.2.26.1  1996/02/20  13:44:31  dstine
* Branch: DeadKingOnAThrone_branch
* Sync from DeadKingOnAThrone_baseline_960122 to
* DeadKingOnAThrone_baseline_960213
*
* Revision 3.2  1995/11/17  08:58:13  hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1  1995/11/09  11:15:19  shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2  1995/06/23  22:23:30  mbeesley
* CSCdi36360: 95q1 compiler fails to build czip_elf
* Work-around the compiler bug by declaring variables static.
* This allows zipped images for c4500, rsp to ship in 11.0.
*
* Revision 2.1  1995/06/07  20:22:19  hampton
* Bump version numbers from 1.x to 2.x.
*
*------------------------------------------------------------------
*$Endlog$
*/
1.22 iniparser 2.8

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1.26 kerberos 5 5 :1.4.1

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1.27 libgcc and libstdc++ (gcc) 4.2.1

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gcc/libstdc++-v3/src/ctype.cc (for libstdc++)

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1.28 libtiff 3.4
1.28.1 Available under license :

```c
/*------------------------------------------------------------------
* Uncompress code
*
* January '97, Bob Andrews
*
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*------------------------------------------------------------------
*/

/* The unzip code was written and put in the public domain by Mark Adler.
* This is the interface to the unzip code. It has been modified
* by Cisco for use in self-decompressing router images based on
* the zip compression algorithms.
*/

/* $Id: czip.c,v 3.3 1996/01/16 00:56:40 vdukki Exp $
 * $Source: /vws/aam/cherf.111/ios/sys/czip/czip.c,v $
```
czip.c - czip uncompress

December 1994, Michael Beesley


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The unzip code was written and put in the public domain by Mark Adler. This is the interface to the unzip code. It has been modified by Cisco for use in self-decompressing router images based on the zip compression algorithms.

---

$Log: czip.c,v $
Revision 3.3 1996/01/16 00:56:40 vdukki
CSCdi46688: xx-j-mz.110-4.2 fails to unzip properly during boot
Updated the code to display a warning message if the number of bytes not consumed, by the inflate() function, is less than or equal to 32.

Revision 3.2 1995/11/17 08:58:03 hampton
Remove old entries from the RCS header logs.

Revision 3.1 1995/11/09 11:15:08 shaker
Bump version numbers from 2.x to 3.x.

Revision 2.1 1995/06/07 20:22:06 hampton
Bump version numbers from 1.x to 2.x.

$Endlog$

---

$Id: czip.h,v 3.3.26.1 1996/03/18 19:11:04 gstovall Exp $
/*

/* czip.h:
 *
 * Common definitions for all modules used in Cisco's zipped self extracting
 * router images.
 *
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 * and put in the public domain by Mark Adler.
 */

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1.30 MCE DRAM SIM sb1250

1.30.1 Available under license:

/*  *********************************************************************
*  SB1250 Board Support Package
*   
*   * DRAM Startup Module     File: sb1250_dram.S
* 
* This module contains code to initialize and start the DRAM
* controller on the SB1250.
* 
* Author: Mitch Lichtenberg (mpl@broadcom.com)
* 
* ************************************************************************
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1.33 Michael Ringgaard Localization

unknown

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.jpg "Clone me," says Dolly sheepishly

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2. [2]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [5]Michael Barone <michael.barone@lmco.com> GPSVME fixes
5. [6]Jean-François Boudreauault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
11. [12] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. [13] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
16. [17] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
17. [18] John Hay <jhay@@icomtek.csir.co.za> IPv6 support and testing
18. [19] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
19. [20] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
20. [21] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. [22] Jeff Johnson <sbj@chatham.usdesign.com> massive prototyping overhaul
22. [23] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpswep
23. [25] Poull-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. [26] Frank Kardel [27]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup
25. [28] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. [29] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. [30] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. [34] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
33. [36] Wolfgang Moeller <moeller@gwdv1.dnet.gwdg.de> VMS port
34. [37] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. [38] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
36. [39] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
37. [40] Derek Mulcahy <derek@toybox.demon.co.uk> and [41] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
38. [42] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
monitoring/trap scripts, statistics file handling
39. [43]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. [44]Wilfredo Sánchez <wsanchez@apple.com> added support for
    NetInfo
41. [45]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
    space on the stuff in the html/pic/ subdirectory
43. [47]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. [48]Michael Shields <shields@tembel.org> USNO clock driver
45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
    driver
46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
    makeover, various other bits (see the ChangeLog)
47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. [52]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
    support
49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
    driver
50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
    TrueTime clock driver
51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
    validated HTML documents according to the HTML DTD

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*      @(#)radix.c     8.4 (Berkeley) 11/2/94
* $FreeBSD: src/sys/net/radix.c,v 1.20.2.3 2002/04/28 05:40:25 suz Exp $
*/

1.42 RegEx 3.4a

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1.44 RFC 2936 Appendix A September 2000

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function isSupported()
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Written by John R. Hauser. This work was made possible in part by the
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Street, Berkeley, California 94704. Funding was partially provided by the
National Science Foundation under grant MIP-9311980. The original version
of this code was written as part of a project to build a fixed-point vector
processor in collaboration with the University of California at Berkeley,
is available through the Web page 'http://www.cs.berkeley.edu/~jhauser/arithmetic/SoftFloat.html'.

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1.48  strtocall.c 1.10

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1.49  subbi (map3270) 2.6.1 :PI23

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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c
bindresvport.c
clnt_generic.c
clnt_perror.c
clnt_simple.c
get_myaddress.c
getrpcnt.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesize.c
svc_auth_unix.c
types.hin
xdr_alloc.c
xdr_reference.c

possibly also the following :
include/gssrpc/auth.h

include/gssrpc/auth_unix.h

include/gssrpc/clnt.h
include/gssrpc/netdb.h

include/gssrpc/pmap_clnt.h
include/gssrpc/pmap_prot.h
include/gssrpc/pmap_rmt.h
include/gssrpc/rpc.h
include/gssrpc/rpc_msg.h
include/gssrpc/svc_auth.h
include/gssrpc/svc.h
include/gssrpc/types.hin
include/gssrpc/xdr.h
kadmin/server/ovsec_kadmd.c

lib/rpc/auth_none.c
lib/rpc/auth_unix.c

lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c

lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c

lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c

lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c

lib/rpc/getrpccent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c

lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c

lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c

lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c

lib/rpc/rpc_dtablesize.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c

lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c

lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr_sizeof.c
lib/rpc/xdr_stdio.c

(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindrsvprt.c
bootparam_prot.x
clnt_gen.c
clnth.c
clnt_perr.c
clnt_raw.c
clnt_simp.c
clnt_tcp.c
clnt_udp.c
clnt_unix.c
des_crypt.c
des_crypt.h
des_soft.c
svc_auth.c
svc_auth_des.c
svc_auth.h
svc_authux.c
svc.c
svc.h
svc_raw.c
svc_run.c
svc_simple.c
svc_tcp.c
svc_udp.c
svc_unix.c
types.h
xcrypt.c
xdr_array.c
xdr.c
xdr_float.c
xdr.h
xdr_mem.c
xdr_rec.c
xdr_ref.c
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yppasswd.x

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Wim Coekaerts
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Linux and Virtualization Engineering
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   * @(#)tftp.h     8.1 (Berkeley) 6/2/93
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* atoi.c

* Standard C-Library atoi() function: convert base 10 ASCII to int.

* Author: Tim Iverson
ivrson@lionheart.com

* Revision History (most recent first)
* $Log:   C:/usr/src/libc/vcs/src/atoi.c  $

* Rev 1.2 13 Sep 1995 18:31:58 iverson
* Put comment records in modules that can support them.

* Added support for new STRING family functions.
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clnt_generic.c
clnt_perror.c
clnt_simple.c
get_myaddress.c
getrpcent.c
pmap_getmaps.c
pmap_getport.c
rpc_callmsg.c
rpc_commondata.c
rpc_dtablesize.c
svc_auth_unix.c
types.hin
xdr_alloc.c
xdr_reference.c

possibly also the following:
include/gssrpc/auth.h

include/gssrpc/auth_unix.h

include/gssrpc/clnt.h
include/gssrpc/netdb.h

include/gssrpc/pmap_clnt.h
include/gssrpc/pmap_prot.h

include/gssrpc/pmap_rmt.h
include/gssrpc/rpc.h

include/gssrpc/rpc_msg.h
include/gssrpc/svc_auth.h

include/gssrpc/svc.h
include/gssrpc/types.hin

include/gssrpc/xdr.h
kadmin/server/ovsec_kadmd.c

lib/rpc/auth_none.c
lib/rpc/auth_unix.c

lib/rpc/authunix_prot.c
lib/rpc/bindresvport.c

lib/rpc/clnt_generic.c
lib/rpc/clnt_perror.c

lib/rpc/clnt_raw.c
lib/rpc/clnt_simple.c
lib/rpc/clnt_tcp.c
lib/rpc/clnt_udp.c
lib/rpc/get_myaddress.c

lib/rpc/getrpcent.c
lib/rpc/getrpcport.c
lib/rpc/pmap_clnt.c

lib/rpc/pmap_getmaps.c
lib/rpc/pmap_getport.c

lib/rpc/pmap_prot2.c
lib/rpc/pmap_prot.c
lib/rpc/pmap_rmt.c

lib/rpc/rpc_callmsg.c
lib/rpc/rpc_commondata.c

lib/rpc/rpc_dtablesise.c
lib/rpc/rpc_prot.c

lib/rpc/svc_auth.c
lib/rpc/svc_auth_unix.c
lib/rpc/svc.c

lib/rpc/svc_raw.c
lib/rpc/svc_run.c
lib/rpc/svc_simple.c

lib/rpc/svc_tcp.c
lib/rpc/svc_udp.c

lib/rpc/unit-test/server.c
lib/rpc/xdr_alloc.c

lib/rpc/xdr_array.c
lib/rpc/xdr.c
lib/rpc/xdr_float.c

lib/rpc/xdr_mem.c
lib/rpc/xdr_rec.c
lib/rpc/xdr_reference.c

lib/rpc/xdr,sizeof.c
lib/rpc/xdr_stdio.c
(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authuxprot.c
bindrsvprt.c
bootparam_prot.x
clntr_gen.c
clntr.h
clntr_perr.c
clntr_raw.c
clntr_simp.c
clntr_tcp.c
clntr_udp.c
clntr_unix.c
des_crypt.c
des_crypt.h
des_soft.c
get_myaddr.c
getrpcport.c
key_call.c
key_prot.c
key_prot.h
key_prot.x
klm_prot.x
mount.x
netdb.h
nfs_prot.x
nlm_prot.x
openchild.c
pmap_clnt.c
pmap_clnt.h
pmap_prot2.c
pmap_prot.c
pmap_prot.h
pmap_rmt.c
pmap_rmt.h
pm_getmaps.c
pm_getport.c
rex.x
rpc_clntout.c
rpc_cmsg.c
rpc_common.c
rpc_cout.c
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thanks

Wim Coekaerts
Senior Vice President
Linux and Virtualization Engineering
Oracle Corporation
1.58 tputs.c 4.4BSD? via NetBSD

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/* $NetBSD: tputs.c,v 1.23 2005/05/15 21:11:13 christos Exp $ */

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 */

1.59 UM-LDAP 3.3

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1.60 wait.h 4.4BSD?

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 *
 * @(#)wait.h 8.1 (Berkeley) 6/2/93
 */
1.61 Xdmcp.h 1.3 : CVS
1.61.1 Available under license:
/* $XdotOrg: lib/Xdmcp/include/X11/Xdmcp.h,v 1.3 2005/07/03 07:00:56 daniels Exp */
2/* $Xorg: Xdmcp.h,v 1.7 2001/04/13 14:43:00 steve Exp */
3/*
5*
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15*
16*/

1.62 Xmd.h unknown
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/*****************************************************************************
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1.63 xml_parser_datetime.c 2.6.31
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/*
 *
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1.64 xmlsoft - The XML Parser 1

1.64.1 Available under license:

/*------------------------------------------------------------------
* cnshal_xml_datetime.c - CNS XML dateTime and duration datatypes
*------------------------------------------------------------------*/

#include <posix/cpu_types.h>
#include <posix/inttypes.h>
#include <posix/string.h>
#include <kernel/ios_kernel_types.h>
#include <kernel/clock.h>        /* for clock_epoch struct */
#include <kernel/memory/include/free.h>

/*
* The code below came from www.xmlsoft.org and has the following
* copyright/license. This code was modified by cisco systems.
*/

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* of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
* */
typedef unsigned char hal_xmlChar;
static inline void *hal_xmlMalloc (uint size)
{
    return (malloc(size));
}

static inline void hal_xmlFree (void *ptr)
{
    free(ptr);
}

/*
* schemastypes.c : implementation of the XML Schema Datatypes
* definition and validity checking
*
* See Copyright for the status of this software.
*
* Daniel Veillard <veillard@redhat.com>
*/

typedef enum {
    HAL_XML_SCHEMAS_UNKNOWN = 0,
    HAL_XML_SCHEMAS_TIME,
    HAL_XML_SCHEMAS_GDAY,
    HAL_XML_SCHEMAS_GMONTH,
    HAL_XML_SCHEMAS_GMONTHDAY,
    HAL_XML_SCHEMAS_GYEAR,
    HAL_XML_SCHEMAS_GYARMONTH,
    HAL_XML_SCHEMAS_DATE,
    HAL_XML_SCHEMAS_DATETIME,
    HAL_XML_SCHEMAS_DURATION,
    HAL_XML_SCHEMAS_,
HAL_XML_SCHEMAS_XXX
} hal_xmlSchemaValType;

#define POWERTEN_ARY_SIZE 10
unsigned long hal_powten[POWERTEN_ARY_SIZE] = {
    1, 10, 100, 1000, 10000, 100000, 1000000, 10000000L,
    100000000L, 1000000000L
};

/* Date value */
typedef struct _hal_xmlSchemaValDate hal_xmlSchemaValDate;
typedef hal_xmlSchemaValDate *hal_xmlSchemaValDatePtr;
struct _hal_xmlSchemaValDate {
    long              year;
    unsigned int      mon :4;  /* 1 <=  mon    <= 12   */
    unsigned int      day :5;  /* 1 <=  day    <= 31   */
    unsigned int      hour :5; /* 0 <=  hour   <= 23   */
    unsigned int      min :6;  /* 0 <=  min    <= 59   */
    unsigned int      sec;
    int               tz_flag :1; /* is tzo explicitly set? */
    int               tzo :11; /* -1440 <= tzo <= 1440 */
};

/* Duration value */
typedef struct _hal_xmlSchemaValDuration hal_xmlSchemaValDuration;
typedef hal_xmlSchemaValDuration *hal_xmlSchemaValDurationPtr;
struct _hal_xmlSchemaValDuration {
    long              mon;  /* mon stores years also */
    long              day;
    long              sec;  /* sec stores min and hour also */
};

typedef struct _hal_xmlSchemaValDecimal hal_xmlSchemaValDecimal;
typedef hal_xmlSchemaValDecimal *hal_xmlSchemaValDecimalPtr;
struct _hal_xmlSchemaValDecimal {
    /* would use long long but not portable */
    unsigned long     base;
    unsigned int      extra;
    unsigned int      sign:1;
    int               frac:7;
    int               total:8;
};

typedef struct _hal_xmlSchemaVal hal_xmlSchemaVal;
typedef hal_xmlSchemaVal *hal_xmlSchemaValPtr;
struct _hal_xmlSchemaVal {
    hal_xmlSchemaValType type;
    union {


hal_xmlSchemaValDate date;
hal_xmlSchemaValDuration dur;
} value;
}

/**
 * hal_xmlSchemaNewValue:
 * @type: the value type
 *
 * Allocate a new simple type value
 *
 * Returns a pointer to the new value or NULL in case of error
 */
static hal_xmlSchemaValPtr hal_xmlSchemaNewValue(hal_xmlSchemaValType type) {
    hal_xmlSchemaValPtr value;

    value = (hal_xmlSchemaValPtr)hal_xmlMalloc(sizeof(hal_xmlSchemaVal));
    if (value == NULL) {
        return(NULL);
    }
    memset(value, 0, sizeof(hal_xmlSchemaVal));
    value->type = type;
    return(value);
}

/**
 * halXmlSchemaFreeValue:
 * @value: the value to free
 *
 * Cleanup the default XML Schemas type library
 */
void halxmlSchemaFreeValue(hal_xmlSchemaValPtr value) {
    if (value == NULL)
        return;
    hal_xmlFree(value);
}

/****************************************************************
**
* Convenience macros and functions*
**
****************************************************************/
#define IS_TZO_CHAR(c)
((c == 0) || (c == 'Z') || (c == '+') || (c == '-'))
#define VALID_YEAR(yr)          (yr != 0)
#define VALID_MONTH(mon)        ((mon >= 1) && (mon <= 12))

/* VALID_DAY should only be used when month is unknown */
#define VALID_DAY(day)          ((day >= 1) && (day <= 31))
#define VALID_HOUR(hr)          ((hr >= 0) && (hr <= 23))
#define VALID_MIN(min)          ((min >= 0) && (min <= 59))
#define VALID_SEC(sec)          ((sec >= 0) && (sec < 60))
#define VALID_TZO(tzo)          ((tzo > -1440) && (tzo < 1440))

#define IS_LEAP(yr)  (((yr % 4 == 0) && (yr % 100 != 0)) || (yr % 400 == 0))

#define MAX_DAYINMONTH(yr,mon)                                  
(IS_LEAP(yr) ? daysInMonthLeap[mon - 1] : daysInMonth[mon - 1])

#define VALID_MDAY(dt) (IS_LEAP(dt->year) ?
        (dt->day <= daysInMonthLeap[dt->mon - 1]) :
        (dt->day <= daysInMonth(dt->mon - 1)))

#define VALID_DATE(dt) (VALID_YEAR(dt->year) && VALID_MONTH(dt->mon) && VALID_MDAY(dt))

#define VALID_TIME(dt) (VALID_HOUR(dt->hour) && VALID_MIN(dt->min) &&
        VALID_SEC(dt->sec) && VALID_TZO(dt->tzo))

#define VALID_DATETIME(dt) (VALID_DATE(dt) && VALID_TIME(dt))

#define SECS_PER_MIN            (60)
#define SECS_PER_HOUR           (60 * SECS_PER_MIN)
#define SECS_PER_DAY            (24 * SECS_PER_HOUR)

#ifdef DEBUG
#define DEBUG_DATE(dt)                                                  
        xmlGenericError(xmlGenericErrorContext,                             
        "type=%04ld-%02u-%02uT%02u:%02u:%03f",                       
        dt->type,dt->value.date.year,dt->value.date.mon,    
        dt->value.date.day,dt->value.date.hour,dt->value.date.min,  
        dt->value.date.sec);  
        if (dt->value.date.tz_flag)                                      
            if (dt->value.date.tzo != 0)                               
                xmlGenericError(xmlGenericErrorContext,                 

        xmlGenericError(xmlGenericErrorContext,                             
        "type=%04ld-%02u-%02u",                                          
        dt->type,dt->value.date.year,dt->value.date.mon,               
        dt->value.date.day,dt->value.date.hour,dt->value.date.min,     
        dt->value.date.sec);  
        if (dt->value.date.tz_flag)                                      
            if (dt->value.date.tzo != 0)                               
                xmlGenericError(xmlGenericErrorContext,                 


```c
#define DEBUG_DATE(dt)

/**
 * hal_xmlSchemaParseGYear:
 * @dt:  pointer to a date structure
 * @str: pointer to the string to analyze
 *
 * Parses a xs:gYear without time zone and fills in the appropriate
 * field of the @dt structure. @str is updated to point just after the
 * xs:gYear. It is supposed that @dt->year is big enough to contain
 * the year.
 *
 * Returns 0 or the error code
 */

static int
hal_xmlSchemaParseGYear (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str, *firstChar;
    int isneg = 0, digcnt = 0;

    if (((*cur < '0') || (*cur > '9')) &&
        (*cur != '-') && (*cur != '+'))
        return -1;

    if (*cur == '-') {
        isneg = 1;
        cur++;
    }

    firstChar = cur;

    while (((*cur >= '0') && (*cur <= '9')) {
        dt->year = dt->year * 10 + (*cur - '0');
        cur++;
        digcnt++;
    }

    /* year must be at least 4 digits (CCYY); over 4
     * digits cannot have a leading zero. */
    if ((digcnt < 4) || (digcnt > 4) && (*firstChar == '0'))
        return 1;
```

---

**Open Source Used In**

164
if (isneg)
    dt->year = - dt->year;

if (!VALID_YEAR(dt->year))
    return 2;

    *str = cur;
    return 0;
}

/**
* PARSE_2_DIGITS:
* @num:  the integer to fill in
* @cur:  an #hal_xmlChar *
* @invalid: an integer
*
* Parses a 2-digits integer and updates @num with the value. @cur is
* updated to point just after the integer.
* In case of error, @invalid is set to %TRUE, values of @num and
* @cur are undefined.
*/
#define PARSE_2_DIGITS(num, cur, invalid)								/*
if ((cur[0] < '0') || (cur[0] > '9') ||
    (cur[1] < '0') || (cur[1] > '9'))
    invalid = 1;
else
    num = (cur[0] - '0') * 10 + (cur[1] - '0');
    cur += 2;

/**
* PARSE_FLOAT:
* @num:  the double to fill in
* @cur:  an #hal_xmlChar *
* @invalid: an integer
*
* Parses a float and updates @num with the value. @cur is
* updated to point just after the float. The float must have a
* 2-digits integer part and may or may not have a decimal part.
* In case of error, @invalid is set to %TRUE, values of @num and
* @cur are undefined.
*/
/* IOS doesn't have FLOAT, so we will not use this. */
#ifdef notdef
    #define PARSE_FLOAT(num, cur, invalid)\n    PARSE_2_DIGITS(num, cur, invalid)\n    if ('.' == *cur) {
        double mult = 1;
        cur++;
    }
#endif
if ((*cur < '0') || (*cur > '9'))
invalid = 1;
while ((*cur >= '0') && (*cur <= '9')) {
    mult /= 10;
    num += (*cur - '0') * mult;
    cur++;
}
}
#endif

/* Here is the alternate version for IOS. We ignore a "," */
#define PARSE_FLOAT(num, cur, invalid)
PARSE_2_DIGITS(num, cur, invalid);
if (!invalid && (*cur == '.')) {
    cur++;
    if ((*cur < '0') || (*cur > '9'))
        invalid = 1;
    while ((*cur >= '0') && (*cur <= '9')) {
        cur++;
    }
}

/**
 * hal_xmlSchemaParseGMonth:
 * @dt:  pointer to a date structure
 * @str: pointer to the string to analyze
 *
 * Parses a xs:gMonth without time zone and fills in the appropriate
 * field of the @dt structure. @str is updated to point just after the
 * xs:gMonth.
 *
 * Returns 0 or the error code
 */
static int
hal_xmlSchemaParseGMonth (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str;
    int ret = 0;

    PARSE_2_DIGITS(dt->mon, cur, ret);
    if (ret != 0)
        return ret;

    if (!VALID_MONTH(dt->mon))
        return 2;

    *str = cur;
    return 0;
}
/**
* hal_xmlSchemaParseGDay:
* @dt: pointer to a date structure
* @str: pointer to the string to analyze
*
* Parses a xs:gDay without time zone and fills in the appropriate
* field of the @dt structure. @str is updated to point just after the
* xs:gDay.
*
* Returns 0 or the error code
*/
static int
hal_xmlSchemaParseGDay (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str;
    int ret = 0;

    PARSE_2_DIGITS(dt->day, cur, ret);
    if (ret != 0)
        return ret;

    if (!VALID_DAY(dt->day))
        return 2;

    *str = cur;
    return 0;
}

/**
* hal_xmlSchemaParseTime:
* @dt: pointer to a date structure
* @str: pointer to the string to analyze
*
* Parses a xs:time without time zone and fills in the appropriate
* fields of the @dt structure. @str is updated to point just after the
* xs:time.
* In case of error, values of @dt fields are undefined.
*
* Returns 0 or the error code
*/
static int
hal_xmlSchemaParseTime (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
    const hal_xmlChar *cur = *str;
    unsigned int hour = 0; /* use temp var in case str is not xs:time */
    int ret = 0;

    PARSE_2_DIGITS(hour, cur, ret);
    if (ret != 0)
        return ret;
if (*cur != ':')
return 1;
cur++;

/* the ':' insures this string is xs:time */
dt->hour = hour;

PARSE_2_DIGITS(dt->min, cur, ret);
if (ret != 0)
return ret;

if (*cur != ':')
return 1;
cur++;

PARSE_FLOAT(dt->sec, cur, ret);
if (ret != 0)
return ret;

if (!VALID_TIME(dt))
return 2;

*str = cur;
return 0;
}

/**
 hal_xmlSchemaParseTimeZone:
 @dt:  pointer to a date structure
 @str: pointer to the string to analyze

 Parses a time zone without time zone and fills in the appropriate
 field of the @dt structure. @str is updated to point just after the
 time zone.

 Returns 0 or the error code
 */
static int
hal_xmlSchemaParseTimeZone (hal_xmlSchemaValDatePtr dt, const hal_xmlChar **str) {
  const hal_xmlChar *cur = str ? str : NULL;
  int ret = 0;

  /*
  * time zone is optional
  */
  if (str == NULL)
    return 0;
```c
switch (*cur) {
    case 0:
        dt->tz_flag = 0;
        dt->tzo = 0;
        break;

    case 'Z':
        dt->tz_flag = 1;
        dt->tzo = 0;
        cur++;
        break;

    case '+':
    case '-': {
        int isneg = 0, tmp = 0;
        isneg = (*cur == '-');
        cur++;

        PARSE_2_DIGITS(tmp, cur, ret);
        if (ret != 0)
            return ret;
        if (!VALID_HOUR(tmp))
            return 2;
        if (*cur != ':')
            return 1;
        cur++;

        dt->tzo = tmp * 60;

        PARSE_2_DIGITS(tmp, cur, ret);
        if (ret != 0)
            return ret;
        if (!VALID_MIN(tmp))
            return 2;
        dt->tzo += tmp;
        if (isneg)
            dt->tzo = - dt->tzo;

        if (!VALID_TZO(dt->tzo))
            return 2;

        dt->tz_flag = 1;
        break;
    }
```
default:
    return 1;
}

*str = cur;
    return 0;
}

/**************************************************************************
* XML Schema Dates/Times Datatypes Handling
***************************************************************************/

/**
* PARSE_DIGITS:
* @num:  the integer to fill in
* @cur:  an #hal_xmlChar *
* @num_type: an integer flag
* *
* Parses a digits integer and updates @num with the value. @cur is
* updated to point just after the integer.
* In case of error, @num_type is set to -1, values of @num and
* @cur are undefined.
* */
#define PARSE_DIGITS(num, cur, num_type)                \
    if ((*cur < '0') || (*cur > '9'))
        num_type = -1;
    else                                                    
        while ((*cur >= '0') && (*cur <= '9')) {			\        
            num = num * 10 + (*cur - '0');		        
            cur++;                                          
        }

/**
* PARSE_NUM:
* @num:  the integer to fill in
* @cur:  an #hal_xmlChar *
* @num_type: an integer flag
* *
* Parses a float or integer and updates @num with the value. @cur is
* updated to point just after the number. If the number is a float,
* then it must have an integer part and a decimal part; @num_type will
* be set to 1. If there is no decimal part, @num_type is set to zero.
* In case of error, @num_type is set to -1, values of @num and
* @cur are undefined.
* */
#define PARSE_NUM(num, cur, num_type) \
    if (!(*cur < '0') || (*cur > '9'))\        
        num_type = -1;
    else                                                    
        while ((*cur >= '0') && (*cur <= '9')) {	\        
            num = num * 10 + (*cur - '0');	        
            cur++;                                          
        }
int halxmlSchemaValidateDates (const hal_xmlChar *dateTime, hal_xmlSchemaValPtr *val) {
    hal_xmlSchemaValPtr dt;
    int ret;
    const hal_xmlChar *cur = dateTime;
    #define RETURN_TYPE_IF_VALID(t)
    if (IS_TZO_CHAR(*cur)) {
        ret = hal_xmlSchemaParseTimeZone(&(dt->value.date), &cur);
        if (ret == 0) {
            if (*cur != 0)
                goto error;
            dt->type = t;
            if (val != NULL)
                *val = dt;
            return 0;
        }
    }
    if (dateTime == NULL)
        return -1;
    if ((*cur != '-') && (*cur < '0') && (*cur > '9'))
        return 1;
    dt = hal_xmlSchemaNewValue(HAL_XML_SCHEMAS_UNKNOWN);
    if (dt == NULL)
        return -1;
    if ((cur[0] == '-') && (cur[1] == '-')) {
        }
/*
 * It's an incomplete date (xs:gMonthDay, xs:gMonth or
 * xs:gDay)
 */
cur += 2;

/* is it an xs:gDay? */
if (*cur == '-') {
  ++cur;
  ret = hal_xmlSchemaParseGDay(&(dt->value.date), &cur);
  if (ret != 0)
    goto error;
  RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GDAY);
  goto error;
}

/*
 * it should be an xs:gMonthDay or xs:gMonth
 */
ret = hal_xmlSchemaParseGMonth(&(dt->value.date), &cur);
if (ret != 0)
  goto error;
if (*cur != '-')
  goto error;
cur++;

/* is it an xs:gMonth? */
if (*cur == '-') {
  cur++;
  RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GMONTH);
  goto error;
}

/* it should be an xs:gMonthDay */
ret = hal_xmlSchemaParseGDay(&(dt->value.date), &cur);
if (ret != 0)
  goto error;
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GMONTHDAY);

go to error;

/*
 * It's a right-truncated date or an xs:time.
* Try to parse an xs:time then fallback on right-truncated dates.
* /
if (("*cur >= '0') && (*cur <= '9')) {
    ret = hal_xmlSchemaParseTime(&(dt->value.date), &cur);
    if (ret == 0) {
        /* it's an xs:time */
        RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_TIME);
    }
}

/* fallback on date parsing */
cur = dateTime;

ret = hal_xmlSchemaParseGYear(&(dt->value.date), &cur);
if (ret != 0)
goto error;

/* is it an xs:gYear? */
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GYEAR);

if (*cur != '-')
goto error;
cur++;

ret = hal_xmlSchemaParseGMonth(&(dt->value.date), &cur);
if (ret != 0)
goto error;

/* is it an xs:gYearMonth? */
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_GYEARMONTH);

if (*cur != '-')
goto error;
cur++;

ret = hal_xmlSchemaParseGDay(&(dt->value.date), &cur);
if ((ret != 0) || !VALID_DATE((&(dt->value.date))))
goto error;

/* is it an xs:date? */
RETURN_TYPE_IF_VALID(HAL_XML_SCHEMAS_DATE);

if (*cur != 'T')
goto error;
cur++;

/* it should be an xs:dateTime */
ret = hal_xmlSchemaParseTime(&(dt->value.date), &cur);
if (ret != 0)
goto error;

ret = hal_xmlSchemaParseTimeZone(&dt->value.date, &cur);
if ((ret != 0) || (*cur != 0) || !VALID_DATETIME((&dt->value.date)))
goto error;

dt->type = HAL_XML_SCHEMAS_DATETIME;

if (val != NULL)
    *val = dt;

return 0;

error:
    if (dt != NULL)
        halxmlSchemaFreeValue(dt);
    return 1;
}

/**
 * halxmlSchemaValidateDuration:
 * @type: the predefined type
 * @duration: string to analyze
 * @val: the return computed value
 *
 * Check that @duration conforms to the lexical space of the duration type.
 * if true a value is computed and returned in @val.
 *
 * Returns 0 if this validates, a positive error code number otherwise
 * and -1 in case of internal or API error.
 */
int halxmlSchemaValidateDuration(const hal_xmlChar *duration, hal_xmlSchemaVal *val) {
    const hal_xmlChar  *cur = duration;
    hal_xmlSchemaValPtr dur;
    int isneg = 0;
    unsigned int seq = 0;

    if (duration == NULL)
        return -1;

    if (*cur == '-') {
        isneg = 1;
        cur++;  
    }

    /* duration must start with 'P' (after sign) */
if (*cur++ != 'P')
return 1;

dur = hal_xmlSchemaNewValue(HAL_XML_SCHEMAS DURATION);
if (dur == NULL)
return -1;

while (*cur != 0) {
    int num;
    int num_type = 0; /* -1 = invalid, 0 = int, 1 = floating */
    const hal_xmlChar desig[] = {'Y', 'M', 'D', 'H', 'M', 'S'};
    const ulong multi[] = { 0, 0, 86400, 3600, 60, 1, 0};

    /* input string should be empty or invalid date/time item */
    if (seq >= sizeof(desig))
        goto error;

    /* T designator must be present for time items */
    if (*cur == 'T') {
        if (seq <= 3) {
            seq = 3;
            cur++;
        } else
            goto error;
    } else if (seq == 3)
        goto error;

    /* parse the number portion of the item */
    PARSE_NUM(num, cur, num_type);

    if ((num_type == -1) || (*cur == 0))
        goto error;

    /* update duration based on item type */
    while (seq < sizeof(desig)) {
        if (*cur == desig[seq]) {

            /* verify numeric type; only seconds can be float */
            if ((num_type != 0) && (seq < (sizeof(desig)-1)))
                goto error;

            switch (seq) {
            case 0:
                dur->value.dur.mon = (long)num * 12;
                break;
            case 1:
                dur->value.dur.mon += (long)num;
                break;
            } /* switch */
        } /* if */
    } /* while */
} /* while */

/* finish */
default:
    /* convert to seconds using multiplier */
    dur->value.dur.sec += num * multi[seq];
    seq++;
    break;

break;  /* exit loop */
}
/* no date designators found */
if (++seq == 3)
    goto error;

cur++;
}

if (isneg) {
    dur->value.dur.mon = -dur->value.dur.mon;
    dur->value.dur.day = -dur->value.dur.day;
    dur->value.dur.sec = -dur->value.dur.sec;
}

if (val != NULL)
    *val = *dur;

halxmlSchemaFreeValue(dur);

return 0;

error:
    if (dur != NULL)
        halxmlSchemaFreeValue(dur);
    return 1;
}

boolean hal_xml_parse_dateTime_datatype(const char * const xml_data,
    clock_epoch *result)
{
    int rc;
    hal_xmlSchemaValPtr val;
    ios_timeval tv;

    if (((xml_data == NULL) || (result == NULL)) { 
        /* API error */
        return (FALSE);
    }
    rc = halxmlSchemaValidateDates(xml_data, &val);
    if (rc == -1) {
/* API error */
halxmlSchemaFreeValue(val);
return (FALSE);
}
if (rc > 0) {
/* Data is invalid dateTime */
/* no need to call halxmlSchemaFreeValue(val); */
halxmlSchemaFreeValue(val);
}
/* val contains the parsed dateTime info. */
/* we need to convert it to a clock_epoch */
if (val->value.date.tz_flag) {
tv.tz_offset = val->value.date.tzo * 60; /* convert minutes to seconds */
} else {
tv.tz_offset = 0;
}
tv.year = val->value.date.year;
tv.month = val->value.date.mon;
tv.day = val->value.date.day;
tv.hour = val->value.date.hour;
tv.minute = val->value.date.min;
tv.second = val->value.date.sec; /* whole seconds part */
tv.millisecond = 0; /* fractional part */
clock timeval_to_epoch(&tv, result);
halxmlSchemaFreeValue(val);
return (TRUE);
}

boolean hal_xml_parse_dateTime_to_timeval (const char * const xml_data,
ios_timeval *result)
{
int rc;
hal_xmlSchemaValPtr val = NULL;
ios_timeval tv;
memset(&tv, 0, sizeof(ios_timeval));
if (xml_data == NULL || (result == NULL)) {
/* API error */
return (FALSE);
}
rc = halxmlSchemaValidateDates(xml_data, &val);
if (rc == -1) {
/* API error */
halxmlSchemaFreeValue(val);
return (FALSE);
}
if (rc > 0) {
    /* Data is invalid dateTime */
    halxmlSchemaFreeValue(val);
    return (FALSE);
}
tv.year = val->value.date.year;
tv.month = val->value.date.mon;
tv.day = val->value.date.day;
tv.hour = val->value.date.hour;
tv.minute = val->value.date.min;
tv.second = val->value.date.sec; /* whole seconds part */
tv.millisecond = 0; /* fractional part */
if (result) {
    *result = tv;
}
halxmlSchemaFreeValue(val);
return (TRUE);
}

boolean hal_xml_parse_duration_datatype (const char * const xml_data,
    ulong *result_seconds)
{
    int rc;
    hal_xmlSchemaVal val;

    if ((xml_data == NULL) || (result_seconds == NULL)) {
        /* API error */
        return (FALSE);
    }
    rc = halxmlSchemaValidateDuration(xml_data, &val);
    if (rc == -1) {
        /* API error */
        return (FALSE);
    }
    if (rc > 0) {
        /* Data is invalid duration */
        return (FALSE);
    }
    /* val contains the parsed duration.
    * we need to convert it to seconds
    */
    if (val.value.dur.mon != 0) {
        /* Can't spec duration in months */
        return (FALSE);
    }
    if (val.value.dur.sec <= 0) {
/* Can't spec a negative or 0 duration */
return (FALSE);
}

*result_seconds = val.value.dur.sec;
return (TRUE);
}


boolean hal_xml_parse_pos_int_datatype (const char * const xml_data,
   int *result)
{
    char  *cur = (char *)xml_data;
    int isneg = 0;
    int numtype = 0;

    if (xml_data == NULL)
      return FALSE;

    if (*cur == '-') {
      isneg = 1;
      cur++;
    }

    PARSE_NUM(*result, cur, numtype);
    if (isneg) {
      *result = -*result;
    }

    return (0 == numtype);
}

1.65 zlib 1.1.3
1.65.1 Available under license :

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Jean-loup Gailly Mark Adler jloup@gzip.org madler@alumni.caltech.edu The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
1.66 Zlib 1.1.2

1.66.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.1.3, July 9th, 1998

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

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