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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
* *
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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)
/*
 * 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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 */
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_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);
}

/**
 * halXmlSchemaFreeValue:
 * @value:  the value to free
 *
void halxmlSchemaFreeValue(hal_xmlSchemaValPtr value) {
    if (value == NULL)
        return;
    hal_xmlFree(value);
}

#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))
#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(y)
   (((y % 4 == 0) && (y % 100 != 0)) || (y % 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_SEC(dt->sec) && VALID_TZO(dt->tzo))
#define VALID_TIME(dt)
   (VALID_HOUR(dt->hour) && VALID_MIN(dt->min) &&
   VALID_SEC(dt->sec) && VALID_TZO(dt->tzo))

Open Source Used In C6800-8P40G 15.5(1)SY
#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)

#if define 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);  
else  
xmlGenericError(xmlGenericErrorContext, "%+05d
",dt->value.date.tzo);  
else  
xmlGenericError(xmlGenericErrorContext, "Z\n");  
#else  
#define DEBUG_DATE(dt)
#endif

/**
 * 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'))\n    invalid = 1;\nelse\n    num = (cur[0] - '0') * 10 + (cur[1] - '0');\n    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.
*
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
* Parses a xs: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_xmlSchemaParseTimeZone (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;
}
* @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;
    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++;
        }

    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;\nelse  \
    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)				\nnum = 0;                                                \nPARSE_DIGITS(num, cur, num_type); \nif (!num_type && (*cur == '.')) { \n    num_type = -1; \n}

/**
* halxmlSchemaValidateDates:
* @type: the predefined type
* @dateTime: string to analyze
* @val:  the return computed value
*
* Check that @dateTime conforms to the lexical space of one of the date types.
* 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 halxmlSchemaValidateDates (const hal_xmlChar *dateTime, hal_xmlSchemaValPtr *val) { 
    hal_xmlSchemaValPtr dt;
    int ret;
    const hal_xmlChar *cur = dateTime;

    #define RETURN_TYPE_IF_VALID(t)\n    if (IS_TZO_CHAR(*cur)) { \n        ret = hal_xmlSchemaParseTimeZone(&dt->value.date), &cur);\n        if (ret == 0) { \n            if (*cur != 0) \n                goto error;\n    
    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);
}
if (*cur != '-')
    goto error;
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);

/* 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 != '-')
go to error;
cur++;

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

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

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

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

ret = hal_xmlSchemaParseTimeZone(&(dt->value.date), &cur);
if (!(ret != 0) || (*cur != 0) || !VALID_DATETIME((&(dt->value.date))))
go to 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 = hal_xmlSchemaNewValue(HAL_XML_SCHEMAS_DURATION);
    if (dur == NULL)
        return -1;
    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;
    if (*cur == 'T') {
        if (seq <= 3) {
            seq = 3;
            cur++;
        } else
            goto error;
    } else if (seq == 3)
        goto error;
    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);
        cur++;
    }
    /* duration must start with 'P' (after sign) */
    if (*cur++ != 'P')
        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;
    return -1;
}
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;
            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); */
        /* 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);
}
file hal_xml_parse.h
* Jan 2009
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************************************************************************/
/* XML Parse Lib Header file - Public definitions. */
/* Library routines for parsing and generating XML. */
/* */
/* For Documentation and Usage Notes, see: */
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/* */
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/* */
/* Carl Kindman 8-21-2001 carl_kindman@yahoo.com */
************************************************************************/
#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 );

1.6 Catalyst 4K EndianH UC Berkeley C 1
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 *
 * from: @(#)endian.h 7.7 (Berkeley) 4/3/91
 * $Id: endian.h,v 1.3 1999/10/14 00:25:50 stong Exp $
 */

1.7 cd9660 8.18

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 *@(#)cd9660_bmap.c 8.3 (Berkeley) 1/23/94
*/

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*/

1.9 CMU PPP V1.0

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Version 2.060

7th January 2013

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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
 */
Copyright (C) 2003 Mark Adler, all rights reserved
version 1.1, 4 Nov 2003
*/

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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
* \( X^{32} + X^{26} + X^{23} + X^{22} + X^{16} + X^{12} + X^{11} + X^{10} + X^8 + X^7 + X^5 + X^4 + X^2 + X + 1 \)
* 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 $edb88320
*/

1.12 Cron Entry unspecified

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18 * user.
19 *
20 * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
21 * I'll try to keep a version up to date. I can be reached as follows:
22 * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
23 */
24
25 /* crontab - header for vixie's cron
26 *
27 */FreeBSD: src/usr.sbin/cron/cron/cron.h,v 1.8.2.1 1999/08/29 15:40:36 peter Exp $
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 */

/* CMU libsasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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

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

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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
* $FreeBSD: src/sys/sys/ttycom.h,v 1.16 2000/01/29 16:47:35 peter Exp $
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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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1.20 harness_dns.c unknown
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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
* All rights reserved.
*------------------------------------------------------------------
* $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-arround the compiler bug by declaring variables static.
* This allows zipped images for c4500, r5p 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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1.28 libtiff 3.4
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 */
```

1.29 Mark Adler-Unzip 3.3

1.29.1 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 $
 */
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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.

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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.
/* czip.h : * * Common definitions for all modules used in Cisco's zipped self extracting * router images. * * The code in this file is derived from unzip source written * and put in the public domain by Mark Adler. */

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Version 2, June 1991

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1.30 MCE DRAM SIM sb1250

1.30.1 Available under license:

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 * 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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4. [5]Michael Barone <michael.barone@lmco.com> GPSVME fixes
5. [6]Jean-Francois Boudreault <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, 
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11. [12] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. [13] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and 
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13. [14] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference 
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15. [16] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux 
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16. [17] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for 
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17. [18] John Hay <jhay@@icomtek.csir.co.za> IPv6 support and testing
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21. [22] Jeff Johnson <sfbj@chatham.usdesign.com> massive prototyping 
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25. [28] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX 
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26. [29] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. [30] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox 
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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 
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32. [35] David L. Mills <mills@udel.edu> Version 4 foundation: clock 
    discipline, authentication, precision kernel; clock drivers: 
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33. [36] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
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35. [38] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
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37. [40] Derek Mulcahy <derek@toybox.demon.co.uk> and [41] Damon 
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38. [42] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
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39. [43]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. [44]Wilfredo Sánchez <wsanchez@apple.com> added support for
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41. [45]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
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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
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46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. [52]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
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49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock
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50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
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51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
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* @(#)bpf.h    7.1 (Berkeley) 5/7/91
*
* @(#) $Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.34 2005/02/08 20:03:15 guy Exp $ (LBL)
* /

1.39 Poul-Henning Kamp Inflate and MD5 1
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1.44 RFC 2936 Appendix A September 2000

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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c
bindresvport.c
cnt_generic.c
cnt_perror.c
cnt_simple.c
get_myaddress.c
getrpcent.c
pmap_getmaps.c
pmap_getport.c
callmsg.c
commndata.c
tablesize.c
temployee_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_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
clnrt gen.c
clnrt.h
clnrt_perr.c
clnrt_raw.c
clnrt_simp.c
clnrt_tcp.c
clnrt_udp.c
clnrt_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
rpc_des.h
rpc_dtable.c
rpc.h
rpc_hout.c
rpcinfo.c
rpc_main.c
rpc_msg.h
rpc_parse.c
rpc_parse.h
rpc_prot.c
rpc_sample.c
rpc_scan.c
rpc_scan.h
rpc_svcout.c
rpc_tblout.c
rpc_util.c
rpc_util.h
rstat.x
rtime.c
rusers.x
sm_inter.x
spray.x
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Wim Coekaerts
Senior Vice President
Linux and Virtualization Engineering
Oracle Corporation

1.51 TCL/TK 8.3.4

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/*      $OpenBSD: termcap.c,v 1.7 2009/10/27 23:59:46 deraadt Exp $     */
/*      $NetBSD: termcap.c,v 1.7 1995/06/05 19:45:52 pk Exp $   */

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 *
 * @(#)tftp.h 8.1 (Berkeley) 6/2/93
 */

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1.56 Tinyrom UC Berkeley C 1

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/* Copyright (c) 1995 Combinet, Inc. All rights reserved.
* atoi.c
* Standard C-Library atoi() function: convert base 10 ASCII to int.
* Author: Tim Iverson
* iverson@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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(1) rusers (netkit)

rstat_proc.c

(2) krb5

authunix_prot.c

bindresvport.c
clntr_generic.c
clntr_perror.c
clnt_simple.c
get_myaddress.c
getpcent.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
(3) glibc

auth_des.c
authdes_prot.c
auth.h
auth_none.c
auth_unix.c
auth_unix.h
authxprot.c
bindrsvprt.c
bootparam_prot.x
clint_gen.c
clint.h
clint_perr.c
clint_raw.c
clint_simp.c
clint_tcp.c
clint_udp.c
clint_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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1.59 UM-LDAP 3.3

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# *
# * searchpref.h: display template library defines
# * 16 May 1994 by Gordon Good
# */

## 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/*
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16 */

1.62 Xmd.h unknown

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1.63 xml_parser_datetime.c 2.6.31
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1.64 xmlsoft - The XML Parser 1

1.64.1 Available under license:

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    * 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)

    /*------------------------------------------------------------------
    * 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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* authorization from him.
*/
typedef unsigned char hal_xmlChar;
static inline void *hal_xmlMalloc (uint size)
{
    return (malloc(size));
}

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

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_
}
#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				ryear;
    unsigned intmon:4;/* 1 <= mon <= 12 */
    unsigned intday:5;/* 1 <= day <= 31 */
    unsigned inthour:5;/* 0 <= hour <= 23 */
    unsigned intmin:6;/* 0 <= min <= 59*/
    unsigned intsec;
    int			
tz_flag:1;/* is tzo explicitely set? */
    inttzo: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(y)						\((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, 31, 30, 31, 30, 31 };
static const long daysInMonthLeap[DAYINMONTH_ARY_SIZE] =
{ 31, 29, 31, 30, 31, 30, 31, 31, 30, 31, 30, 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_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,                               \
"timezone=%ld",dt->value.date.tzo))
#endif
"%+05d\n",dt->value.date.tzo);          \
else                                     \
    xmlGenericError(xmlGenericErrorContext, "Z\n");           \
else                                     \
    xmlGenericError(xmlGenericErrorContext,"\n")
#endif
#define DEBUG_DATE(dt)
#endif

/**
 * 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)
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
t if ((cur[0] < '0') || (cur[0] > '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++;
}
#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
* Parsed 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;
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)
num = 0;

PARSE_DIGITS(num, cur, num_type);
if (!num_type && (*cur == '.')) {
    num_type = -1;
}

/**
 * halxmlSchemaValidateDates:
 * @type: the predefined type
 * @dateTime: string to analyze
 * @val: the return computed value
 *
 * Check that @dateTime conforms to the lexical space of one of the date types.
 * 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 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 != '-') && (*cur < '0') && (*cur > '9'))
        return 1;

    dt = hal_xmlSchemaNewValue(HAL_XML_SCHEMAS_UNKNOW);
/* 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
 * 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;
            default:
                break;
            }
        }
    }
}
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);
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);
    }
    /* Data is invalid dateTime */
    /* no need to call halxmlSchemaFreeValue(val); */
    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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   (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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