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

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```
/*-----  
* 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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 * 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);
}

/*

```

```

* schematypes.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_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 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(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, \
        "%+05d\n",dt->value.date.tzo); \
else \
    xmlGenericError(xmlGenericErrorContext, "Z\n"); \
else \
    xmlGenericError(xmlGenericErrorContext, "\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')) \
    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.
*
* 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;

    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[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
* 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:
                /* 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);
    }
    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);
}
/*-----
* 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:                  */
/*      http://xmlparselib.sourceforge.net/                  */
/*
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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;
    struct Xml_name_value_pair *nxt;
} Xml_name_value_pair;

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, attribtues, 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_attr( 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

1.6.1 Available under license :

```
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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

1.7.1 Available under license :

```
/*-
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 *
```

```

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

```

1.8 clock_util.c 1992

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```

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```

- * express or implied warranty.
- *
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- * Steve Clift (clift@ml.csiro.au) OMEGA clock driver)
- */

1.9 CMU PPP V1.0

1.9.1 Available under license :

```
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*

* REVISION HISTORY

*

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* Ported to lwIP.

* 97-11-05 Guy Lancaster <lancasterg@acm.org>, Global Election Systems Inc.

* Original.

*****/

/*

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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Jean-loup Gailly and Mark Adler.

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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<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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version 1.1, 4 Nov 2003

*/

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1.11 crc32.c N/A

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*

* 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 operations
* 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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```

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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 /* cron.h - 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 $
28 *
29 * vix 14nov88 [rest of log is in RCS]
30 * vix 14jan87 [0 or 7 can be sunday; thanks, mwm@berkeley]
31 * vix 30dec86 [written]

```


1.13 CUDD: CU Decision Diagram Package

v2.4.1

1.13.1 Available under license :

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```
# */
/* CMU libasl
* 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 :IOS

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

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 - * @(#)endian.h 7.9 (Berkeley) 6/19/92
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1.17 Expat XML Parser - Series 1 v1.2

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1.18 freebsd-tty-headers n/a

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 *
 *   @(#)ttychars.h 8.2 (Berkeley) 1/4/94
 * $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 \$
- */

1.19 ftp.h 4.4BSD?

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1.20 harness_dns.c unknown

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```
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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
   *
   * Copyright (c) 1990-1997, 2001, 2004-2005, 2007 by cisco Systems, Inc.
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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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1.24 ipc.h (os infra pi ipc) 8.3

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

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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.28 libtiff 3.4

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#  */
```

1.29 Mark Adler-Unzip 3.3

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```
/*-----
 * 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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* All rights reserved.
*
*-----
* $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. 17 *
* 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.
*
*-----
* $Endlog$
*/

*
* 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.h,v 3.3.26.1 1996/03/18 19:11:04 gstovall Exp $
* $Source: /release/111/cvs/Xsys/czip/czip.h,v $
*-----
* czip.h - Cisco Self decompressing images header file
*
* December 1994, Michael Beesley
*
* Copyright (c) 1993-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

/* czip.h :
*
* Common definitions for all modules used in Cisco's zipped self extract      ing
* 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 :

```
/* *****  
* 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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2. [2]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices

3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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, 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
13. [14]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
14. [15]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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.csiro.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 <jbj@chatham.usdesign.com> massive prototyping overhaul
22. [23]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [24]<H.Lambermont@chello.nl> ntpswEEP
23. [25]Poul-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
32. [35]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers:

- Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
audio clock drivers: CHU, WWV/H, IRIG
33. [36]Wolfgang Moeller <moeller@gwdgv1.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 S?nchez <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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1.38 pcap-bpf.h 1.34

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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

1.39.1 Available under license :

```

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* -----
*
*/

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1.40 qsort.c 1.1.1.1

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1.41 radix 4.4BSD

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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 3.8a

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1.43 RegEx 3.4a

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1.44 RFC 2936 Appendix A September 2000

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```

```
function isSupported()
{
    // Ultimate client-side JavaScript client sniff.
    // (C) Netscape Communications 1999. Permission granted to reuse and distribute.
    Full Copyright Statement
```

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1.45 sem.h 4.4BSD? via NetBSD

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- *
- * from: @(#)sem.h 8.1 (Berkeley) 6/6/93
- */

1.46 Softfloat Release 2b :IOS

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/*=====

This C source file is part of the SoftFloat IEC/IEEE Floating-point Arithmetic

Package, Release 2b.

Written by John R. Hauser. This work was made possible in part by the

International Computer Science Institute, located at Suite 600, 1947 Center

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,

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1.47 strlcat 1.11

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1.48 strtoul.c 1.10

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```

/* $NetBSD: strtoul.c,v 1.10 1997/07/13 20:17:02 christos Exp $ */

```

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1.49 subbi (map3270) 2.6.1 :PI23

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Date: Wed, 18 Aug 2010 11:25:39 -0700
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To: Peter Brown <peterb@fsf.org>, drepper@redhat.com, tcallawa@redhat.com
CC: Elena Zannoni <elena.zannoni@oracle.com>
Subject: sun rpc license

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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

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.h

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

authxprot.c

bindrsvprt.c

bootparam_prot.x

clnt_gen.c

clnt.h

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
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
svc_auth.c
svcauth_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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xdr_stdio.c
yppasswd.x

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Wim Coekaerts
Senior Vice President
Linux and Virtualization Engineering
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1.51 TCL/TK 8.3.4

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1.52 Telnet Unknown

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1.53 termcap 4.4BSD? via OpenBSD

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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

* \$FreeBSD: /repoman/r/ncvs/src/include/arpa/tftp.h,v 1.3.6.1 2002/08/14 21:59:26 peter Exp \$

*/

1.55 tgoto.c 4.4BSD?

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1.56 Tinyrom UC Berkeley C 1

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```
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 *
 * 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.
*
*   Rev 1.1  11 Jul 1995 18:56:58  iverson
*   Added support for new STRING family functions.
*
*   Rev 1.0  10 Jul 1995 20:12:44  iverson
*   Initial version.
*/

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1.57 TIRPC 2.3

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# */
```

Date: Wed, 18 Aug 2010 11:25:39 -0700

From: Wim Coekaerts <wim.coekaerts@oracle.com>

To: Peter Brown <peterb@fsf.org>, drepper@redhat.com, tcallawa@redhat.com

CC: Elena Zannoni <elena.zannoni@oracle.com>

Subject: sun rpc license

Hi -

I was thinking of doing patches for this but it's probably easier to just provide you with an email with permission to relicense then it can catch the files and projects. Please let me know if any files are missing I will be happy to review that as well. just send me a note with files and which project

On behalf of Oracle America, I authorize the following list of files to be re-licensed under the license below, (3-clause BSD) and changing the old Sun Microsystems license to the one attached. :

(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

getrpccent.c

pmap_getmaps.c

pmap_getport.c

rpc_callmsg.c

rpc_commdata.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_commdata.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
clnt.h
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
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
svc_auth.c
svcauth_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
xdr_sizeof.c
xdr_stdio.c
yppasswd.x

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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

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```
/* $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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14 * without express or implied warranty.
15 *
16 */
17 /* $XFree86: xc/lib/Xdmcp/Xdmcp.h,v 3.7 2003/07/09 15:27:29 tsi Exp $ */
```

1.62 Xmd.h unknown

1.62.1 Available under license :

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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
 *
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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)

/*
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 */

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 */
```

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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);
}
```

/*

- * schematypes.c : implementation of the XML Schema Datatypes
- * definition and validity checking

*

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*

- * 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_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 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(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,
            "%+05d\n",dt->value.date.tzo);
    else
        xmlGenericError(xmlGenericErrorContext, "Z\n");
    else
        xmlGenericError(xmlGenericErrorContext, "\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')) \
    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.
 *
 * 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;

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[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
 * 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:
        /* 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);
    }
    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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/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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*/

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