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1.2 bzip2 1.0.8

1.3 boost 1.62.0

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```

```
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>
```

```
template <int i>
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
int main() { }
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```

<html xmlns="http://www.w3.org/1999/xhtml">
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  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    '../../',
      VERSION:     '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="../../_static/jquery.js"></script>
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</tr></table>

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<a accesskey="u" href="../../index.html"></a>
<a accesskey="h" href="../../index.html"></a>
<a accesskey="n" ></a>
</div>

  <div class="document">
<div class="chapter">
  <div class="body" role="main">

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```

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</p>
</div></td>
</tr></table>
</div>
</body>
```

```
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```

```
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>
```

```
template <typename X>
struct f { using type = X; };
```

```
template <int i>
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;
```

```
int main() { }
```

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//

// See <http://www.boost.org/libs/intrusive> for documentation.

//

////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP

#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP

include <boost/config.hpp>

#endif


```

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstdint>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
    boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using
    boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;

```

```

using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T> \
    struct boost_intrusive_has_type_ ## TNAME \
    { \
        template <typename X> \
        static char test(int, typename X::TNAME*); \
        \
        \
        template <typename X> \
        static int test(...); \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
    }; \
    \
    template <typename T, typename DefaultType> \
    struct boost_intrusive_default_type_ ## TNAME \
    { \
        struct DefaultWrap { typedef DefaultType TNAME; }; \
        \
        typedef typename \
            ::boost::intrusive::detail::if_c \
                < boost_intrusive_has_type_ ## TNAME<T>::value \
                    , T, DefaultWrap>::type::TNAME type; \
    }; \
    //

```

```

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
    INSTANTIATION_NS_PREFIX \
        boost_intrusive_has_type_ ## TNAME< T >::value \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
    template <typename T, typename DefaultType> \
    struct boost_intrusive_eval_default_type_ ## TNAME \
    { \
        template <typename X> \
        static char \
        test(int, typename X::TNAME*); \
        \
        template <typename X> \
        static int test(...); \
        \
        struct DefaultWrap \
        { typedef typename DefaultType::type TNAME; }; \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0))); \
        \
        typedef typename \
            ::boost::intrusive::detail::eval_if_c \
                < value \
                , ::boost::intrusive::detail::identity<T> \
                , ::boost::intrusive::detail::identity<DefaultWrap> \
            \
            >::type::TNAME type; \
    }; \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX \
        boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAIT_PREFIX,
TYPEDEF_TO_FIND) \
    template <class T>\
    struct TRAIT_PREFIX##_bool\

```

```

{\
    template<bool Add>\
    struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,\
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{ \
private: \
    template<Signature> struct helper;\
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME*>);\
    template<typename T> static ::boost::intrusive::detail::no_type test(...); \
public: \
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
    struct BaseMixin \
    { \
        void FUNC_NAME(); \
    }; \
    struct Base : public Type, public BaseMixin { Base(); }; \
    template <typename T, T t> class Helper{}; \
    template <typename U> \
    static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME*>* = 0); \
    static ::boost::intrusive::detail::yes_type test(...); \

    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

```

```

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAIT_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAIT_NAME##_ignore_signature, FUNC_NAME)
\
\
template <typename Type, class> \
struct TRAIT_NAME \
: public TRAIT_NAME##_ignore_signature<Type> \
{ }; \
//

} //namespace detail
} //namespace intrusive
} //namespace boost

```

```
#include <boost/intrusive/detail/config_end.hpp>
```

```
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

```
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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements

for an [[@../.../libs/mpl/doc/refmanual/integral-constant.html](http://www.boost.org/libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type].

Please note that these types no longer inherit from ``mpl::true_`` or ``mpl::false_`` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from ``integral_constant`` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

[endsect]

[/

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<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">

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<link rel="up" href=".../index.html" title="Chapter 1. Boost.TypeTraits">

<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">

<link rel="next" href="examples.html" title="Examples">

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<td align="center">Home</td>

<td align="center">Libraries</td>

<td align="center">People</td>

<td

align="center">FAQ</td>

<td align="center">More</td>

</tr></table>

<hr>

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<a accesskey="h"

href=".../index.html"><a accesskey="n"

href="examples.html">


```

</div>
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<a name="boost_typed_traits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an <a
href="http://www.boost.org/libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>.
</p>
<p>
Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code> or
<code class="computeroutput"><span class="identifier">mpl</span><span class="special">::</span><span
class="identifier">false_</span></code> etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
from <code class="computeroutput"><span class="identifier">integral_constant</span></code> to the
corresponding MPL types, therefore tag-dispatching that uses MPL types in function
overloads will still work as before.
</p>
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Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
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file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
</p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsics.html"></a><a
accesskey="u" href="http://www.boost.org/doc/src/images/up.png" alt="Up"></a><a accesskey="h"
href="http://www.boost.org/doc/src/images/home.png" alt="Home"></a><a accesskey="n"
href="http://www.boost.org/doc/src/images/next.png" alt="Next"></a>
</div>
</body>
</html>

```

```

[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]
var group__group_ext_mpl =
[
    [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
    [ "list", "structboost_1_1mpl_1_1list.html", null ],
    [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga 2005-2013.
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using

```

```

boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

```

```

template
<class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first; }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first); }
};

```

```

template <class T, class=void>
struct is_transparent
{
    static const bool value = false;
};

```

```

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
    static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
    : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{
};

} //namespace dtl {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
The MIT License (MIT)

```

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```

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re

```

```

import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year ==
end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
    for i, line in enumerate(content[:15]):
        m = re.match(r'^((?P<prefix>\W*)(\c\))?\s*?copyright\s*(\c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
        if m:
            d = m.groupdict()
            prefix.add(d['prefix'])
            lines.append(i)
            names.append(d['name'].strip())
    if len(prefix) != 1:
        print 'Not found:', filename
        return
    prefix = list(prefix)[0]

```

```

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in
lines:
    for repl in new:
        print >>f, prefix + repl
    else:
        print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

```

Maybe this should pass?

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
```

```
Subject to the Boost Software License, Version 1.0.
```

```
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE\_1\_0.txt)
```

```
-->
```

```
<section id="date_time.license">
```

```
<title>Boost Date-Time Library License</title>
```

```
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
```

```
<!--
```

```
<ulink url="../../index.htm">
```

```
<imagedata align="left"
```

```
format="GIF"
```

```
fileref="../../boost.png"
```

```
alt="C++ Boost" />
```

```
</ulink>-->
```

```
<!--hr /-->
```

```
<para>
```

The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

</para>

<para>

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<para>

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</para>

<!--hr / -->

<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>

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-->

<!-- boost-no-inspect -->

<!-- HTML header for doxygen 1.8.9.1-->

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"<http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd>">

<html xmlns="<http://www.w3.org/1999/xhtml>">

<head>

<meta http-equiv="Content-Type" content="text/xhtml; charset=UTF-8"/>

<meta http-equiv="X-UA-Compatible" content="IE=9"/>

<meta name="generator" content="Doxygen 1.8.11"/>

<title>Boost.Hana: Boost.MPL adapters</title>

<link href="tabs.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="jquery.js"></script>

<script type="text/javascript" src="dynsections.js"></script>

<link href="navtree.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="resize.js"></script>

<script type="text/javascript" src="navtreedata.js"></script>

<script type="text/javascript"

src="navtree.js"></script>

<script type="text/javascript">

\$(document).ready(initResizable);

\$(window).load(resizeHeight);

</script>

<link href="search/search.css" rel="stylesheet" type="text/css"/>

<script type="text/javascript" src="search/searchdata.js"></script>

<script type="text/javascript" src="search/search.js"></script>

<script type="text/javascript">

\$(document).ready(function() { init_search(); });

</script>

<script type="text/x-mathjax-config">

MathJax.Hub.Config({

extensions: ["tex2jax.js"],

```

    jax: ["input/TeX","output/HTML-CSS"],
  });
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// (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link
  href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellpadding="0" cellspacing="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
  <div id="projectname">Boost.Hana
  &#160;<span id="projectnumber">1.5.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td>
  <div id="MSearchBox" class="MSearchBoxInactive">
    <span class="left">


    <input type="text" id="MSearchField" value="Search" accesskey="S"
      onfocus="searchBox.OnSearchFieldFocus(true)"
      onblur="searchBox.OnSearchFieldFocus(false)"
      onkeyup="searchBox.OnSearchFieldChange(event)"/>
    </span><span class="right">

```

```

        <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
    </span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
  <div id="nav-tree">
    <div id="nav-tree-contents">
      <div id="nav-sync" class="sync"></div>
    </div>
  </div>
  <div id="splitbar" style="-moz-user-select:none;"
    class="ui-resizable-handle">
  </div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
  onmouseover="return searchBox.OnSearchSelectShow()"
  onmouseout="return searchBox.OnSearchSelectHide()"
  onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
  name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
  <div class="summary">
<a href="#nested-classes">Classes</a> </div>
  <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a

```

```

class="el" href="group__group-ext.html">External adapters</a></div></div> </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c<T, v></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td colspan="2" class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1list.html">boost::mpl::list<T></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td colspan="2" class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector<T></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td colspan="2" class="memSeparator" colspan="2">&#160;</td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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(See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>

```

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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-->

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

"<http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd>">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title><no title> — Boost.HigherOrderFunctions 0.6 documentation</title>

```

<link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    './',
    VERSION:    '0.6',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE:  true,
    SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link
rel="index" title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p" ></a>
<a accesskey="u" href="doc/index.html"></a>
<a accesskey="h" href="doc/index.html"></a>
<a accesskey="n" ></a>
</div>

<div class="document">
<div class="chapter">
    <div class="body" role="main">

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Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:</p>
<p>The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,

```


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```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
    Copyright 2016, Paul Fultz II.

    Created using Sphinx 1.5.6.
    <p>Distributed under the Boost Software License, Version 1.0.
    (See accompanying file LICENSE_1_0.txt or copy at
    \)
    </p>
</div></td>
</tr></table>
</div>
</body>
</html>
<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>
    Copyright Test
</h3>
<p class="copyright">
    1963, 1964, 1965 Jane Doe
</p>
<p class="copyright">
    2018 Joe Blow, John Coe
```

```

</p>
<p class="copyright">
  1977, 1985 Someone else
</p>
</body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
Software License, Version 1.0

```

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////

```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:
```

The header ``<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for ``mp_list`` and ``std::tuple`` to be valid link:../../libs/mpl[MPL] sequences.

NOTE: ``mpl.hpp`` is not included by ``<boost/mp11.hpp>``.
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 // (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)

```
#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>
```

```
template <typename State, typename X>
struct f { using type = X; };
```

```
struct state { };
```

```
template <int i>
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;
```

```
int main() { }
////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga 2005-2016.
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE\_1\_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////
```

```
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
```

```
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP
```

```
#ifndef BOOST_CONFIG_HPP
```

```
# include <boost/config.hpp>
```

```
#endif
```

```
#
```

```
#if defined(BOOST_HAS_PRAGMA_ONCE)
```

```
# pragma once
```

```
#endif
```

```
#include <cstddef>
```

```
namespace boost {
```

```
namespace interprocess {
```

```
namespace ipcdetail {
```

```
template <class T, T val>
```

```
struct integral_constant
```

```
{
```

```
    static const T value = val;
```

```
    typedef integral_constant<T,val> type;
```

```
};
```

```
template< bool C_>
```

```
struct bool_ : integral_constant<bool, C_>
```

```
{
```

```
    static const bool value = C_;
```

```
};
```

```
typedef bool_<true>    true_;
```

```
typedef
```

```
bool_<false>    false_;
```

```
typedef true_ true_type;
```

```
typedef false_ false_type;
```

```
typedef char yes_type;
```

```
struct no_type
```

```
{
```

```
    char padding[8];
```

```
};
```

```
template <bool B, class T = void>
```

```
struct enable_if_c {
```

```
    typedef T type;
```

```
};
```

```
template <class T>
```

```

struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
    , typename T1
    , typename T2
    >
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
    >
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
    >
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{

```

```

    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/*
*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){}
private:
    split_path& operator=(const split_path&);
};

```



```

std::ostream& operator << (std::ostream& os, const split_path& p)
{
    os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
    return os;
}

std::string
make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</title>\n"

```

```

"</head>\n"
"<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</H1>\n"
    "<H2>Contents</h2>\n"
    "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
    // title:
    os << "  <a href=\"#\" << make_link_target(licenses.first[i->first].license_name)
        << "\">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
    "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
    os <<
        "Moving to the Boost Software License...\n"
        "  <a href=\"#bsl-converted\">Files
that can be automatically converted to the Boost Software License</a>\n"
        "  <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
        "  <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
        "  <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
        "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
    "<a href=\"#depend\">File Dependency Information</a>\n"
    "</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

```

```

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os
    << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
    << "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence
Summary</h2>\n";
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size()
            << " authors and " << i->second.files.size()

```

```

        << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
    // title:
    os <<
        "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
        << "\"></a>" << licenses.first[i->first].license_name
    << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
        std::set<fs::path, path_less>::const_iterator m, n;
        m = i->second.files.begin();
        n = i->second.files.end();
        while(m != n)
        {
            os << split_path(m_boost_path,
*m) << "<br>\n";
            ++m;
        }
        os << "</P></BLOCKQUOTE>\n";
    }
}

```

```

    }
    else
    {
        os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
        os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
    std::set<fs::path, path_less>::const_iterator i2, j2;
    i2 = m_unknown_licenses.begin();
    j2 = m_unknown_licenses.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files with no found
    copyright holder:
    //
    os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
        "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
    i2 = m_unknown_authors.begin();
    j2 = m_unknown_authors.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    if(!m_bsl_summary_mode)
    {
        //
        // Output list of files that have been moved over to the Boost
        // Software License, along with enough information for human
        // verification.
        //
        os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"

```

```

    << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())

    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
                << "</tt><br>\n<table border='1'\n <tr>\n    <td><pre>"
                << i->second.first << "</pre></td>\n    <td><pre>"
                << i->second.second << "</pre></td>\n </tr>\n</table>\n";
            ++i;
            ++file_num;
        }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name='to-bsl'\n">Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //
    os << "<h2><a name='not-to-bsl'\n">Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
}

```

```

os << "</p></BLOCKQUOTE>";
//
// Output list of authors that
we need permission for to move to the BSL
//
os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
    "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
        std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>";
    std::set<fs::path,
path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
os << "</table>\n";
}

//
// output file dependency information:
//
os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)

```

```

{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(),
m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
    while(i != ie)
    {
        bad_paths.insert(i->first);
        ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}

```



```

}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

}

[/=====
Boost.Geometry (aka GGL, Generic Geometry Library)

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=====/]

```

1.4 minizip 1.01

1.4.1 Available under license :

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1.5 libdaemon 0.14

1.5.1 Available under license :

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Version 2.1, February 1999

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```
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1.11 avahi 0.8

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1.12 pcre 8.45

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1.13 libssh 0.9.6

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1.14 ncurses 6.3

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Calling this script install-sh is preferred over install.sh, to prevent 'make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8

1.15 tiny-xml 2.6.2

1.15.1 Available under license :

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www.sourceforge.net/projects/tinyxml

Original code by Lee Thomason (www.grinninglizard.com)

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*

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* /opt/cola/permits/1228782719_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/docs/tinystl_8h_source.html

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*

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```
/** @mainpage
```

```
<h1> TinyXML </h1>
```

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

```
<h2> What it does. </h2>
```

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>.

An intro to XML (that I really like) can be found at <http://skew.org/xml/tutorial/>.

There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be

compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
<!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

- TinyXPath (<http://tinypath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.- TinyXML++ (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.

<h2> Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

- - If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)

begin the file or data stream, TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has an encoding="UTF-8", then
 TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has no encoding specified, then TinyXML will
 read it as UTF-8.
 If the declaration tag is read, and it has an encoding="something else", then TinyXML
 will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's
 not clear what that mode does exactly, but old content should keep working.
 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
 TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The Skew.org link does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file

"utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```
@verbatim
&amp; &
&lt; <
&gt; >
&quot; "
&apos; '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far &amp; Away
@endverbatim
```

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point: The syntax " " or " " are both to the non-breaking space character.

<h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by Print() and SaveFile()
- operator<<. Output to a c++ stream.
- Integrates with standart C++ iostreams.

- Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>

With TIXML_USE_STL on TinyXML supports C++ streams (operator <<, >>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on std::ostream
- operator<<

Generates

condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly.

Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed.

For example, pretend the ' ' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello____world". (Remember to keep pretending the _ is a space.) Others suggest that __Hello__world__ should become Hello____world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace(bool) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace(bool) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```
@verbatim
TiXmlElement* root = document.FirstChildElement(
    "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
            }
        }
    }
}
@endverbatim
```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```
@verbatim
```

```

TiXmlHandle docHandle( &document );
TiXmlElement* child2 = docHandle.FirstChild( "Document" ).FirstChild( "Element" ).Child( "Child", 1
).ToElement();
if ( child2 )
{
    // do something useful
@endverbatim

```

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

<h3>Windows project file for VC6</h3>

```

<ul>
<li>tinyxml: tinyxml library, non-STL </li>
<li>tinyxmlSTL: tinyxml library, STL </li>
<li>tinyXmlTest: test app, non-STL </li>
<li>tinyXmlTestSTL: test app,
    STL </li>
</ul>

```

<h3>Makefile</h3>

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:

@verbatim

```
<?xml version="1.0" standalone=no>
<!-- Our to do list data -->
<ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>
  <Item priority="2"> Do bills</Item>
</ToDo>
```

@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

@verbatim

```
TiXmlDocument
doc( "demo.xml" );
doc.LoadFile();
```

@endverbatim

And its ready to go. Now lets look at some lines and how they relate to the DOM.

@verbatim

```
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the

document node.

This is the only directive/special tag parsed by TinyXML.
Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

```
@verbatim
Go to the
@endverbatim
```

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

```
@verbatim
<bold>
@endverbatim
```

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument  "demo.xml"
TiXmlDeclaration "version='1.0'" "standalone=no"
```

```
TiXmlComment  " Our to do list data"
TiXmlElement  "ToDo"
TiXmlElement  "Item" Attributes: priority = 1
  TiXmlText   "Go to the "
  TiXmlElement "bold"
    TiXmlText  "Toy store!"
  TiXmlElement "Item" Attributes: priority=2
    TiXmlText  "Do bills"
@endverbatim
```

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by

OREilly...the book that got
the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton
*/

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* /opt/cola/permits/1228782719_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

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www.sourceforge.net/projects/tinyxml

Original code by Lee Thomason (www.grinninglizard.com)

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Found

in path(s):

* /opt/cola/permits/1228782719_1637099887.61/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxmlerror.cpp

1.16 i2c-tools 4.3

1.16.1 Available under license :

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1.18 glibc 2.34

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APACHE2

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1.21 libcap 2.63

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1.22 util-linux 2.37.3

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NR START  END SECTORS SIZE NAME UUID
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5 7936 12799  4864 2.4M
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```

is what you want to do, use the GNU Lesser General
Public License instead of this License.
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
    local FILE="$1"

    # Read the contents of the file into a variable
    local raw_license_text=$(<"$FILE")

    # Convert to lowercase
    local lowercase_license_text="{raw_license_text,,}"

    # Remove anything before the beginning of the license
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

    # Replace line breaks (Windows or Linux) with a single space
    local replaced_linebreaks=$(tr "r\n" ' ' <<< "$stripped_license_text")

    # Replace multiple spaces with a single space
    local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

    # Strip away any non-printable, non-whitespace characters
    local clean_unprintable_license_text=$(tr
    -cd '[:print:][:space:]' <<< "$normalized_license_text")

    # Remove punctuation and special characters
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

    # Calculate the MD5 sum of the cleaned license text
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

    # Output the MD5 sum
    echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
    echo "Please provide a FILE as an argument."
    exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

```

WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#\$%&'()*+,-
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#\$%&'()*+,-
./0123456789;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1

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1.23 mtd-utils 2.1.4

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1.30 libical 3.0.9

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Version 1.0

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

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contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@enumerate 0

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@subheading END OF TERMS AND CONDITIONS

@page

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smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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1.34 sudo 1.9.13p3

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross

Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtislav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon,
Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jindrak, Jaroslav
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan

Kienenberger, Mike
King, Dale
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Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbess, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya,
Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander

Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
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Scott,
Dougal
Shand, Will
Sieger, Nick
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Skoll, Dianne
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Spradling, Cloyce D.
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Stier, Matthew
Stoeckmann, Tobias
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Stritzky, Tilo
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Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr

Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Doghonadze, Temuri
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
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Krznar, Tomislav
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Regueiro, Leandro
Sarer, zgr
Selimaj, Agron
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent

Sandwich logo (inspired by xkcd): Stillman, Mark

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```
/*
```

```
* blkid.h - Interface for libblkid, a library to identify block devices
```

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*

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* UBI (Unsorted Block Images) library.

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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libblkid-tiny/mkdev.c

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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libblkid-tiny/swap.c

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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/probe-libblkid.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/probe.h

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/*
* Low-level libblkid probing API
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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libblkid-tiny/squashfs.c

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*

* Author: Artem Bityutskiy ()

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*

/opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/ubi-user.h

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Package: fstools

Version: 2022-06-02-93369be0-2

Depends: libc, librt, libpthread, ubox, ubi-utils

Source: package/system/fstools

SourceName: fstools

License: GPL-2.0
Section: base
SourceDateEpoch: 1660337211
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 22174
Description: OpenWrt filesystem tools

Found in path(s):

* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-aarch64_cortex-a72/fstools/CONTROL/control

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* Authors: Artem Bityutskiy ()

* Thomas Gleixner
* Frank Haverkamp
* Oliver Lohmann
* Andreas Arnez

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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libubi/ubi-media.h

* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/ubi-media.h

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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/snapshot.h
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/libubi-tiny.h
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/overlay.c
*
/opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/volume.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/find.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ubi.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/jffs2reset.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/mtd.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/snapshot.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/mount_root.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/volume.h
*
/opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/libfstools.h
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/mount.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libubi/libubi-tiny.h
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/extroot.c
* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/snapshot.c
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* /opt/cola/permits/1601366401_1679570261.4155128/0/fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/libblkid-tiny.h
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```

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* blkidP.h - Internal interfaces for libblkid
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1.39 procd 2021-03-08-2cfc26f8-1

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Found in path(s):

`/opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/capabilities.h`

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`/opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/fs.c`

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 *
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```

Found in path(s):

```
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/sysupgrade.h
```

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```
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Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/container.h

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

Package: procd-ujail

Version: 2021-03-08-2cfc26f8-1

Depends: libc, librt, libpthread, libubox20220515, libubus20220601, libblobmsg-json20220515

Source: package/system/procd

SourceName: procd-ujail

License: GPL-2.0

Section: base

SourceDateEpoch: 1654425472

Maintainer: John Crispin <john@phrozen.org>

Architecture: aarch64_cortex-a72

Installed-Size: 32039

Description: OpenWrt process jail helper

Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/ipkg-aarch64_cortex-a72/procd-ujail/CONTROL/control

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*

*/

Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plugin/udevtrigger.c

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Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/watchdog.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/preinit.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/trigger.c

*

/opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/service.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/signal.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/state.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/system.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/instance.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plugin/hotplug.h

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/utls/utls.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/early.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/utls/askfirst.c

*

```

/opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/instance.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/upgraded/upgraded.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/rcS.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/mkdev.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plugin/coldplug.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/watchdog.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plugin/hotplug.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/Utils/Utils.h
*
/opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/procd.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/log.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/service.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/ubus.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/inittab.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/watch.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/procd.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/init.c
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```

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Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/jail.c

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* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/fs.h

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/jail.h

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*

* reads unified cgroup config as proposed in

* <https://github.com/opencontainers/runtime-spec/pull/1040>

* attempt conversion from cgroup1 -> cgroup2

* <https://github.com/containers/crun/blob/0.14.1/crun.1.md#cgroup-v2>

*

* ToDo:

* - convert cgroup1 devices to eBPF program

* - convert cgroup1 net_prio and net_cls to eBPF program

* - rdma (anyone?) intelrtdt (anyone?)

*/

Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/cgroups.c

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* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/elf.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/preload.h

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/trace/trace.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/elf.h

*

/opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/seccomp.h

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/trace/preload.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/seccomp-syscalls-helpers.h

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/preload.c

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/log.h

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Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/hotplug-dispatch.c

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Found in path(s):

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Found in path(s):

```
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/init.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/validate.c
```

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```

Found in path(s):

```
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/uxc.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/console.c
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/seccomp-oci.h
* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/cgroups.h
```

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Package: procd

Version: 2021-03-08-2cfc26f8-1

Depends: libc, librt, libpthread, ubusd, ubus, libjson-script20220515, ubox, libubox20220515, libubus20220601, libblobmsg-json20220515, libjson-c5, jshn
Conflicts: procd-selinux
Source: package/system/procd
SourceName: procd
License: GPL-2.0
Section: base
Require-User: :dialout=20 :audio=29
SourceDateEpoch: 1654425472
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 61156
Description: OpenWrt system process manager

Found in path(s):

* /opt/cola/permits/1601395261_1679570349.9239135/0/procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/ipkg-aarch64_cortex-a72/procd/CONTROL/control

1.40 fwtool 2019-11-12

1.40.1 Available under license :

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```
/*
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 *
 * Based on busybox code:
 *   CRC32 table fill function
 *   Copyright (C) 2006 by Rob Sullivan <cogito.ergo.cogito@gmail.com>
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```

Found in path(s):

* /opt/cola/permits/1601412993_1679570273.2046802/0/fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/crc32.h

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 */

Found in path(s):

* /opt/cola/permits/1601412993_1679570273.2046802/0/fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/fwimage.h
 * /opt/cola/permits/1601412993_1679570273.2046802/0/fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/fwtool.c

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

Package: fwtool

Version: 2019-11-12-8f7fe925-1

Depends: libc, librt, libpthread

Source: package/system/fwtool

SourceName: fwtool

License: GPL-2.0

Section: utils

SourceDateEpoch: 1573768411

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 5354

Description: Utility for appending and extracting firmware metadata and signatures

Found in path(s):

* /opt/cola/permits/1601412993_1679570273.2046802/0/fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/ipkg-aarch64_cortex-a72/fwtool/CONTROL/control

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/*

* utils - misc libubox utility functions

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Found in path(s):

* /opt/cola/permits/1601412993_1679570273.2046802/0/fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/utls.h

1.41 jsonfilter 2018-02-04

1.41.1 Available under license :

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Package: jsonfilter

Version: 2018-02-04-c7e938d6-1

Depends: libc, librt, libpthread, libubox20220515, libjson-c5

Source: package/utls/jsonfilter

SourceName: jsonfilter

License: ISC

Section: base

SourceDateEpoch: 1645878990

Maintainer: Jo-Philipp Wich <jo@mein.io>

Architecture: aarch64_cortex-a72

Installed-Size: 12064

Description: OpenWrt JSON filter utility

Found in path(s):

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/ipkg-aarch64_cortex-a72/jsonfilter/CONTROL/control

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* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/matcher.c

*

/opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/main.c

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/ast.c

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/lexer.c

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/lexer.h

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/matcher.h

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/parser.y

* /opt/cola/permits/1601420371_1679668607.7526705/0/jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/ast.h

1.42 libnghttp2 1.44.0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.43 libuclient 2021-05-14

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Package: uclient-fetch
Version: 2021-05-14-6a6011df-1
Depends: libc, librt, libpthread, libuclient20201210
Provides: wget
Alternatives: 200:/usr/bin/wget:/bin/uclient-fetch
Source: package/libs/uclient
SourceName: uclient-fetch
License: ISC
Section: net
SourceDateEpoch: 1621028442
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 9284
Description: Tiny wget replacement using libuclient

Found in path(s):

* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-aarch64_cortex-a72/uclient-fetch/CONTROL/control

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Found in path(s):

* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/progress.c

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Package: libuclient20201210

Version: 2021-05-14-6a6011df-1

Depends: libc, librt, libpthread, libubox20220515

Provides: libuclient

Source: package/libs/uclient

SourceName: libuclient

License: ISC

Section: libs

SourceDateEpoch: 1621028442

ABIVersion: 20201210

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 12104

Description: HTTP/1.1 client library

Found in path(s):

* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-aarch64_cortex-a72/libuclient/CONTROL/control

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```
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*
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* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-backend.h
*
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-utils.c
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-http.c
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-install/usr/include/libubox/uclient.h
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-install/usr/include/libubox/uclient-utils.h
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient.h
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-fetch.c
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient.c
*
* /opt/cola/permits/1601440482_1679668316.2135866/0/uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-utils.h
```

1.44 netifd 2022-08-25

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Version 2, June 1991

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1.45 ubox 2021-08-03

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* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/logd.c
* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/syslog.h
* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/syslog.c

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* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/kmodloader.c

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Found in path(s):

* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/validate/validate.c

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

Package: getrandom

Version: 2021-08-03-205defb5-2

Depends: libc, librt, libpthread

Source: package/system/ubox

SourceName: getrandom

License: GPL-2.0

Section: base

SourceDateEpoch: 1643641405

Maintainer: John Crispin <john@phrozen.org>

Architecture: aarch64_cortex-a72

Installed-Size: 2644

Description: OpenWrt getrandom system helper

Found in path(s):

* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/ipkg-aarch64_cortex-a72/getrandom/CONTROL/control

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Found in path(s):

* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/lsbloader.c

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Found in path(s):

* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/getrandom.c

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

Package: logd

Version: 2021-08-03-205defb5-2

Depends: libc, librt, libpthread, libubox20220515, libubus20220601, libblobmsg-json20220515

Source: package/system/ubox

SourceName: logd

License: GPL-2.0

Section: base

Require-User: logd=514:logd=514

SourceDateEpoch: 1643641405

Maintainer: John Crispin <john@phrozen.org>

Architecture: aarch64_cortex-a72

Installed-Size: 13382

Description: OpenWrt system log implementation

Found in path(s):

* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/ipkg-aarch64_cortex-a72/logd/CONTROL/control

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

Package: ubox

Version: 2021-08-03-205defb5-2

Depends: libc, librt, libpthread, libubox20220515, ubusd, ubus, libubus20220601, libuci20130104

Alternatives: 100:/sbin/rmmod:/sbin/kmodloader, 100:/sbin/insmod:/sbin/kmodloader, 100:/sbin/lsmmod:/sbin/kmodloader, 100:/sbin/modinfo:/sbin/kmodloader, 100:/sbin/modprobe:/sbin/kmodloader

Source: package/system/ubox

SourceName: ubox

License: GPL-2.0

Section: base

SourceDateEpoch: 1643641405

Maintainer: John Crispin <john@phrozen.org>

Architecture: aarch64_cortex-a72

Installed-Size: 19388

Description: OpenWrt system helper toolbox

Found in path(s):

* /opt/cola/permits/1601450456_1679570361.7577162/0/ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/ipkg-aarch64_cortex-a72/ubox/CONTROL/control

1.46 ubus 2022-06-01

1.46.1 Available under license :

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

Package: libubus20220601

Version: 2022-06-01-2bebf93c-1

Depends: libc, librt, libpthread, libubox20220515

Provides: libubus

Source: package/system/ubus

SourceName: libubus

License: LGPL-2.1

Section: libs

SourceDateEpoch: 1654425492

ABIVersion: 20220601

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 12313

Description: OpenWrt RPC client library

Found in path(s):

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-aarch64_cortex-a72/libubus/CONTROL/control

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Found in path(s):

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-

2bebf93c/libubus-acl.c

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

Package: ubus

Version: 2022-06-01-2bebf93c-1

Depends: libc, librt, libpthread, libubus20220601, libblobmsg-json20220515, ubusd

Source: package/system/ubus

SourceName: ubus

License: LGPL-2.1

Section: base

SourceDateEpoch: 1654425492

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 7710

Description: OpenWrt RPC client utility

Found in path(s):

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-aarch64_cortex-a72/ubus/CONTROL/control

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* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_acl.h

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* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/lua/ubus.c

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* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-sub.c

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-obj.c

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* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-internal.h

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-

```

2bebf93c/libubus.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-io.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd.c
*
/opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_proto.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-install/usr/include/libubus.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/server.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-req.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd.h
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* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubus_common.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_event.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/count.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_obj.c
*
/opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/cli.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_id.c
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-

```

```

2bebf93c/ipkg-install/usr/include/ubus_common.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_id.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusmsg.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/count.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-install/usr/include/ubusmsg.h
* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_obj.h
*
/opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/client.c
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* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_acl.c
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Found in path(s):

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_monitor.c

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Package: ubusd

Version: 2022-06-01-2bebf93c-1

Depends: libc, librt, libpthread, libubox20220515, libblobmsg-json20220515

Source: package/system/ubus

SourceName: ubusd

License: LGPL-2.1

Section: base

Require-User: ubus=81:ubus=81

SourceDateEpoch: 1654425492

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 14363

Description: OpenWrt RPC daemon

Found in path(s):

* /opt/cola/permits/1601451248_1679668316.2312958/0/ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-aarch64_cortex-a72/ubusd/CONTROL/control

1.47 usign 2020-05-23

1.47.1 Available under license :

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/* Edwards curve signature system

* Daniel Beer <dlbeer@gmail.com>, 22 Apr 2014

*

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Found in path(s):

* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/edsign.h

* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/edsign.c

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/* Edwards curve operations

* Daniel Beer <dlbeer@gmail.com>, 9 Jan 2014

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Found in path(s):

```
* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/ed25519.c
* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/ed25519.h
```

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```
/* Arithmetic in prime fields
```

```
* Daniel Beer <dlbeer@gmail.com>, 10 Jan 2014
```

```
*
```

```
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/fprime.c
* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/fprime.h
```

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

Package: usign

Version: 2020-05-23-f1f65026-1

Depends: libc, librt, libpthread, libubox20220515

Source: package/system/usign

SourceName: usign

License: ISC

Section: base

SourceDateEpoch: 1590233892

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 13584

Description: OpenWrt signature verification utility

Found in path(s):

```
* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/ipkg-aarch64_cortex-a72/usign/CONTROL/control
```

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

```
/*
```

```
* usign - tiny signify replacement
```

```
*
```

```
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```

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* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/main.c

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/* Arithmetic mod $p = 2^{255-19}$

* Daniel Beer <dlbeer@gmail.com>, 5 Jan 2014

*

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* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/f25519.c

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/* Arithmetic mod $p = 2^{255-19}$

* Daniel Beer <dlbeer@gmail.com>, 8 Jan 2014

*

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Found in path(s):

* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/f25519.h

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/* SHA512

* Daniel Beer <dlbeer@gmail.com>, 22 Apr 2014

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Found in path(s):

* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/sha512.c

*

/* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/sha512.h

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/*

* base64 - libubox base64 functions

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Found in path(s):
* /opt/cola/permits/1601456330_1679570368.625229/0/usign-2020-05-23-f1f65026-zip/usign-2020-05-23-
f1f65026/base64.c

```

1.48 libubox 2022-05-15

1.48.1 Available under license :

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

```

/*
* runqueue.c - a simple task queueing/completion tracking helper
*
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Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/runqueue.h

*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/runqueue.c

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/runqueue.h

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* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/list.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/list.h

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/*

* ulog - simple logging functions

*

* Copyright (C) 2015 Jo-Philipp Wich <jow@openwrt.org>

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* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ulog.h

*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ulog.c

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/ulog.h

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* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/json_script.h

*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/json_script.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/json_script.c

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Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/examples/shunit2

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/*

* uloop - event loop implementation

*

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* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop.c

*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop-kqueue.c

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop-epoll.c

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```
/*
* safe_list - linked list protected against recursive iteration with deletes
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```
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/safe_list.c
```

*

```
/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/ipkg-install/usr/include/libubox/safe_list.h
```

```
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/safe_list.h
```

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```
/*
* utils - misc libubox utility functions
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* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/utls.c

*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/utls.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/utls.h

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/*

* base64 - libubox base64 functions

*

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```
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 * ustream - library for stream buffer management
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```

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```
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/ipkg-install/usr/include/libubox/ustream.h
*
/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/ustream.c
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/ustream-fd.c
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/ustream.h
```

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 */
```

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```
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg.h
*
/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/blobmsg_json.h
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/blobmsg.h
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg_json.c
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg_json.h
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg.c
```

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Package: libblobmsg-json20220515

Version: 2022-05-15-d2223ef9-1

Depends: libc, librt, libpthread, libjson-c5, libubox20220515

Provides: libblobmsg-json

Source: package/libs/libubox

SourceName: libblobmsg-json

License: ISC

Section: libs

SourceDateEpoch: 1654630618

ABIVersion: 20220515

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 4795

Description: blobmsg <-> json conversion library

Found in path(s):

```
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/libblobmsg-json/CONTROL/control
```

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*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/vlist.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/avl-cmp.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/vlist.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/vlist.c

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/avl-cmp.c

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/*

* kvlist - simple key/value store

*

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*
/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/kvlist.h
* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/kvlist.h

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Package: jshn

Version: 2022-05-15-d2223ef9-1

Depends: libc, librt, libpthread, libjson-c5, libubox20220515, libblobmsg-json20220515

Source: package/libs/libubox

SourceName: jshn

License: ISC

Section: utils

SourceDateEpoch: 1654630618

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 7890

Description: Library for parsing and generating JSON from shell scripts

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/jshn/CONTROL/control

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/*

* uloop - event loop implementation

*

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*/

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop.h
*

/opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/uloop.h

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

Package: libubox20220515

Version: 2022-05-15-d2223ef9-1

Depends: libc, librt, libpthread

Provides: libubox

Source: package/libs/libubox

SourceName: libubox

License: ISC

Section: libs

SourceDateEpoch: 1654630618

ABIVersion: 20220515

Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72

Installed-Size: 25465

Description: Basic utility library

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/libubox/CONTROL/control

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*/

/*

* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.

* MD5 Message-Digest Algorithm (RFC 1321).

*

* Homepage:

* <http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5>

*

* Author:

* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>

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*

* See md5.c for more information.

*/

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/md5.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/md5.h

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/*

* runqueue-example.c

*

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*/

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/tests/test-runqueue.c

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*/

/*

* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).

*

* Homepage:

* <http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5>

*

* Author:

* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>

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*

```

* (This is a heavily cut-down "BSD license".)
*
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time
* endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/

```

Found in path(s):

```

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/md5.c

```

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```

Package: libjson-script20220515
Version: 2022-05-15-d2223ef9-1
Depends: libc, librt, libpthread, libubox20220515
Provides: libjson-script
Source: package/libs/libubox
SourceName: libjson-script
License: ISC
Section: utils
SourceDateEpoch: 1654630618
ABIVersion: 20220515
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 6329
Description: Minimalistic JSON based scripting engine

```

Found in path(s):

```

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-
d2223ef9/ipkg-aarch64_cortex-a72/libjson-script/CONTROL/control

```

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```

/*
* PacketBB handler library (see RFC 5444)
* Copyright (c) 2010 Henning Rogge <hrogge@googlemail.com>
* Original OLSRd implementation by Hannes Gredler <hannes@gredler.at>
* All rights reserved.
*
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```

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Found

in path(s):

- * /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/avl.h
- * /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/avl.c
- * /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/avl.h

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

```
# $Id: shunit2 189 2008-07-11 11:46:54Z kate.ward@forestent.com $
# vim:et:ft=sh:sts=2:sw=2
# vim:foldmethod=marker:foldmarker=/**,*/
#
```

```

#/**
# <?xml version="1.0" encoding="UTF-8"?>
# <s:shelldoc xmlns:s="http://www.forestent.com/projects/shelldoc/xsl/2005.0">
# <s:header>
# shUnit 2.1.4
# Shell Unit Test Framework
#
# http://shunit2.sourceforge.net/
#
# written by Kate Ward &lt;kate.ward@forestent.com>;
# released under the LGPL
#
# this module implements a xUnit based unit test framework similar to JUnit
# </s:header>
#*/

SHUNIT_VERSION='2.1.4'

_shunit_warn() { echo "shunit2:WARN @$" >&2; }
_shunit_error() { echo "shunit2:ERROR @$" >&2; }
_shunit_fatal() { echo "shunit2:FATAL @$" >&2; }

SHUNIT_TRUE=0
SHUNIT_FALSE=1
SHUNIT_ERROR=2

# specific shell checks
if [ -n "${ZSH_VERSION:-}" ]; then
  setopt |grep "^shwordsplit$" >/dev/null
  if [ $? -ne ${SHUNIT_TRUE} ]; then
    _shunit_fatal 'zsh shwordsplit option is
required for proper operation'
    exit ${SHUNIT_ERROR}
  fi
  if [ -z "${SHUNIT_PARENT:-}" ]; then
    _shunit_fatal "zsh does not pass \$0 through properly. please declare \
\"SHUNIT_PARENT=\$0\" before calling shUnit2"
    exit ${SHUNIT_ERROR}
  fi
fi

# shell flags for shunit2:
# u - treat unset variables as an error when performing parameter expansion
__SHUNIT_SHELL_FLAGS='u'

# save the current set of shell flags, and then set some for ourself
shunit_shellFlags_="$-"
for shunit_shellFlag_ in `echo "${__SHUNIT_SHELL_FLAGS}" |sed 's/^(.)\1 /g`

```



```

do
    set -${shunit_shellFlag_}
done

#
# constants
#

__SHUNIT_ASSERT_MSG_PREFIX='ASSERT:'
__SHUNIT_PARENT=${SHUNIT_PARENT:-$0}

# set the constants readonly
shunit_constants_=`set |grep "^__SHUNIT_" |cut -d= -f1`
echo "${shunit_constants_}" |grep "^Binary file" >/dev/null
if [ $? -eq 0 ]; then
    # deal with binary junk in 'set' output
    shunit_constants_=`set |grep -a "^__SHUNIT_" |cut -d= -f1`
fi
for shunit_const_ in ${shunit_constants_};
do
    shunit_ro_opts_=""
    if [ -n "${ZSH_VERSION:-}" ]; then
        case ${ZSH_VERSION} in
            [123].*) ;;
            *) shunit_ro_opts_='-g' ;; # declare readonly constants globally
        esac
    fi
    readonly ${shunit_ro_opts_} ${shunit_const_}
done
unset shunit_const_ shunit_constants_ shunit_ro_opts_

# variables
__shunit_skip=${SHUNIT_FALSE}
__shunit_suite=""

__shunit_testsPassed=0
__shunit_testsFailed=0
__shunit_testsSkipped=0
__shunit_testsTotal=0

# macros
__SHUNIT_LINENO_='eval if [ "${1:-}" = "--lineno" ]; then [ -n "$2" ] && shunit_message_="$2"; shift 2; fi'

#-----
# assert functions
#

#/**

```

```

# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertEquals</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>expected</parameter></paramdef>
#
#         <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>expected</emphasis> and
#   <emphasis>actual</emphasis> are equal to one another. The message is
#   optional.</para>
# </entry>
# </s:function>
#*/
assertEquals()
{
    ${_SHUNIT_LINENO_}
    if [ $# -lt 2 -o $# -gt 3 ]; then
        _shunit_error 'assertEquals() requires one or two arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}

    [ -z "${shunit_message_:-}" ] && shunit_message_=""
    if [ $# -eq 3 ]; then
        shunit_message_="${shunit_message_}$1"
        shift
    fi
    shunit_expected_=$1
    shunit_actual_=$2

    shunit_return=${SHUNIT_TRUE}
    if [ "${shunit_expected_}" = "${shunit_actual_}" ]; then
        _shunit_testPassed
    else
        failNotEquals "${shunit_message_}" "${shunit_expected_}" "${shunit_actual_}"
        shunit_return=${SHUNIT_FALSE}
    fi

    unset shunit_message_ shunit_expected_ shunit_actual_
    __shunit_lineno
    return ${shunit_return}

```

```

}
_ASSERT_EQUALS_='eval assertEquals --lineno "${LINENO:-}"

/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertNull</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>value</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>value</emphasis> is <literal>null</literal>,
#   or in shell terms a zero-length string. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNull()
{
    ${_SHUNIT_LINENO_}
    if [ $# -lt 1 -o $# -gt 2 ]; then
        _shunit_error 'assertNull() requires one or two arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}

    [ -z "${shunit_message_:-}" ] && shunit_message_="
    if [ $# -eq 2 ]; then
        shunit_message_="${shunit_message_}$1"
        shift
    fi
    if [ $# -eq 2 ]; then
        assertTrue "${shunit_message_}$1" "[ -z '$2' ]"
    else
        assertTrue "[ -z '$1' ]"
    fi
}
_ASSERT_NULL_='eval assertNull --lineno "${LINENO:-}"

/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>

```

```

# <entry>
# <funcsynopsis>
# <funcprototype>
# <funcdef><function>assertNotNull</function></funcdef>
# <paramdef>string <parameter>[message]</parameter></paramdef>
# <paramdef>string <parameter>value</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>Asserts that <emphasis>value</emphasis> is <emphasis
# role="strong">not</emphasis> <literal>null</literal>, or in shell terms not
# a zero-length string. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNotNull()
{
    ${_SHUNIT_LINENO_}
    if [ $# -gt 2 ]; then # allowing 0 arguments as $1 might actually be null
        _shunit_error 'assertNotNull() requires one
or two arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}

    if [ $# -eq 2 ]; then
        assertTrue "$1" "[ -n '$2' ]"
    else
        assertTrue "[ -n '${1:-}' ]"
    fi
}
_ASSERT_NOT_NULL_='eval assertNotNull --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
# <funcdef><function>assertSame</function></funcdef>
# <paramdef>string <parameter>[message]</parameter></paramdef>
# <paramdef>string <parameter>expected</parameter></paramdef>
# <paramdef>string <parameter>actual</parameter></paramdef>
# </funcprototype>
# </funcsynopsis>
# <para>This function is functionally equivalent to
# <function>assertEquals</function>.</para>

```

```

# </entry>
# </s:function>
#*/
assertSame()
{
    ${_SHUNIT_LINENO_}
    if [ $# -lt 2 -o $# -gt 3 ]; then
        _shunit_error 'assertSame() requires one or two arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}

    if [ $# -eq 2 ]; then
        assertEquals "$1" "$2"
    else
        assertEquals "$1" "$2" "$3"
    fi
}
_ASSERT_SAME_='eval assertSame --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertNotSame</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>unexpected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>unexpected</emphasis> and
#   <emphasis>actual</emphasis> are <emphasis role="strong">not</emphasis>
#   equal to one another. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNotSame()
{
    ${_SHUNIT_LINENO_}
    if [ $# -lt 2 -o $# -gt 3 ]; then
        _shunit_error 'assertNotSame()
requires two or three arguments'
        return ${SHUNIT_ERROR}
    fi

```

```

_shunit_shouldSkip && return ${SHUNIT_TRUE}

[ -z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 3 ]; then
    shunit_message_="${shunit_message_}$1"
    shift
fi
shunit_unexpected_=$1
shunit_actual_=$2

shunit_return=${SHUNIT_TRUE}
if [ "${shunit_unexpected_}" != "${shunit_actual_}" ]; then
    _shunit_testPassed
else
    failSame "${shunit_message_}" "$@"
    shunit_return=${SHUNIT_FALSE}
fi

unset shunit_message_ shunit_unexpected_ shunit_actual_
return ${shunit_return}
}
_ASSERT_NOT_SAME_='eval assertNotSame --lineno "${LINENO:-}"'

/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertTrue</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>condition</parameter></paramdef>
#
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that a given shell test condition is true. The message is
#   optional.</para>
#   <para>Testing whether something is true or false is easy enough by using
#   the assertEquals/assertNotSame functions. Shell supports much more
#   complicated tests though, and a means to support them was needed. As such,
#   this function tests that conditions are true or false through evaluation
#   rather than just looking for a true or false.</para>
#   <funcsynopsis>
#     The following test will succeed: <funcsynopsisinfo>assertTrue "[ 34 -gt 23 ]"</funcsynopsisinfo>
#     The folloing test will fail with a message: <funcsynopsisinfo>assertTrue "test failed" "[ -r '/non/existant/file'
#   ]"</funcsynopsisinfo>

```

```

# </funcsynopsis>
# </entry>
# </s:function>
#*/
assertTrue()
{
    ${_SHUNIT_LINENO_}
    if [ $# -gt 2 ]; then
        _shunit_error 'assertTrue() takes one two arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return
    ${SHUNIT_TRUE}

    [ -z "${shunit_message_:-}" ] && shunit_message_="
    if [ $# -eq 2 ]; then
        shunit_message_="${shunit_message_}$1"
        shift
    fi
    shunit_condition_=$1

    # see if condition is an integer, i.e. a return value
    shunit_match_=`expr "${shunit_condition_}" : '^[0-9]*$'`
    shunit_return=${SHUNIT_TRUE}
    if [ -z "${shunit_condition_}" ]; then
        # null condition
        shunit_return=${SHUNIT_FALSE}
    elif [ "${shunit_condition_}" = "${shunit_match_}" ]; then
        # possible return value. treating 0 as true, and non-zero as false.
        [ ${shunit_condition_} -ne 0 ] && shunit_return=${SHUNIT_FALSE}
    else
        # (hopefully) a condition
        ( eval ${shunit_condition_} ) >/dev/null 2>&1
        [ $? -ne 0 ] && shunit_return=${SHUNIT_FALSE}
    fi

    # record the test
    if [ ${shunit_return} -eq ${SHUNIT_TRUE} ]; then
        _shunit_testPassed
    else
        _shunit_testFailed "${shunit_message_}"
    fi

    unset shunit_message_ shunit_condition_ shunit_match_
    return ${shunit_return}
}
_ASSERT_TRUE_='eval

```

```
assertTrue --lineno "${LINENO:-}"
```

```
##/**
```

```
# <s:function group="asserts">
```

```
# <entry align="right">
```

```
# <emphasis>void</emphasis>
```

```
# </entry>
```

```
# <entry>
```

```
# <funcsynopsis>
```

```
# <funcprototype>
```

```
# <funcdef><function>assertFalse</function></funcdef>
```

```
# <paramdef>string <parameter>[message]</parameter></paramdef>
```

```
# <paramdef>string <parameter>condition</parameter></paramdef>
```

```
# </funcprototype>
```

```
# </funcsynopsis>
```

```
# <para>Asserts that a given shell test condition is false. The message is
```

```
# optional.</para>
```

```
# <para>Testing whether something is true or false is easy enough by using
```

```
# the assertEquals/assertNotSame functions. Shell supports much more
```

```
# complicated tests though, and a means to support them was needed. As such,
```

```
# this function tests that conditions are true or false through evaluation
```

```
# rather than just looking for a true or false.</para>
```

```
# <funcsynopsis>
```

```
# The following test will succeed: <funcsynopsisinfo>assertFalse "[  
'apples' = 'oranges' ]"</funcsynopsisinfo>
```

```
# The folloing test will fail with a message: <funcsynopsisinfo>assertFalse "test failed" "[ 1 -eq 1 -a 2 -eq 2  
]"</funcsynopsisinfo>
```

```
# </funcsynopsis>
```

```
# </entry>
```

```
# </s:function>
```

```
##*/
```

```
assertFalse()
```

```
{
```

```
  ${_SHUNIT_LINENO_}
```

```
  if [ $# -lt 1 -o $# -gt 2 ]; then
```

```
    _shunit_error 'assertFalse() quires one or two arguments'
```

```
    return ${SHUNIT_ERROR}
```

```
  fi
```

```
  _shunit_shouldSkip && return ${SHUNIT_TRUE}
```

```
  [ -z "${shunit_message:-}" ] && shunit_message="
```

```
  if [ $# -eq 2 ]; then
```

```
    shunit_message="${shunit_message_}$1"
```

```
    shift
```

```
  fi
```

```
  shunit_condition_=$1
```

```
# see if condition is an integer, i.e. a return value
```



```

shunit_match_=`expr "${shunit_condition_}" : '([0-9]*)'`
shunit_return=${SHUNIT_TRUE}
if [ -z "${shunit_condition_}" ]; then
    # null condition
    shunit_return=${SHUNIT_FALSE}
elif [ "${shunit_condition_}" = "${shunit_match_}" ]; then
    # possible return value. treating 0 as true, and non-zero as false.
    [ ${shunit_condition_}
-eq 0 ] && shunit_return=${SHUNIT_FALSE}
else
    # (hopefully) a condition
    ( eval ${shunit_condition_} ) >/dev/null 2>&1
    [ $? -eq 0 ] && shunit_return=${SHUNIT_FALSE}
fi

# record the test
if [ ${shunit_return} -eq ${SHUNIT_TRUE} ]; then
    _shunit_testPassed
else
    _shunit_testFailed "${shunit_message_}"
fi

unset shunit_message_ shunit_condition_ shunit_match_
return ${shunit_return}
}
_ASSERT_FALSE_='eval assertFalse --lineno "${LINENO:-}"'

#-----
# failure functions
#

#/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>fail</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Fails the test immediately, with the optional message.</para>
# </entry>
# </s:function>
#*/
fail()

```

```

{
    ${_SHUNIT_LINENO_}
    if [ $# -gt 1 ]; then
        _shunit_error 'fail() requires one or two arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}

    [ -z "${shunit_message_:-}" ] && shunit_message_=
    if [ $# -eq 1 ]; then
        shunit_message_="${shunit_message_}$1"
        shift
    fi

    _shunit_testFailed "${shunit_message_}"

    unset shunit_message_
    return ${SHUNIT_FALSE}
}

_FAIL_='eval fail --lineno "${LINENO:-}"'

/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <functsynopsis>
#     <funcprototype>
#       <funcdef><function>failNotEquals</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>unexpected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </functsynopsis>
#   <para>Fails the test if <emphasis>unexpected</emphasis> and
#
#     <emphasis>actual</emphasis> are <emphasis role="strong">not</emphasis>
#     equal to one another. The message is optional.</para>
# </entry>
# </s:function>
#*/
failNotEquals()
{
    ${_SHUNIT_LINENO_}
    if [ $# -lt 2 -o $# -gt 3 ]; then
        _shunit_error 'failNotEquals() requires one or two arguments'
        return ${SHUNIT_ERROR}
    fi
}

```

```

fi
_shunit_shouldSkip && return ${SHUNIT_TRUE}

[ -z "${shunit_message_:-}" ] && shunit_message_="
if [ $# -eq 3 ]; then
    shunit_message_="${shunit_message_}$1"
    shift
fi
shunit_unexpected_=$1
shunit_actual_=$2

_shunit_testFailed "${shunit_message_:+${shunit_message_} }expected:<${shunit_unexpected_}> but
was:<${shunit_actual_}>"

unset shunit_message_ shunit_unexpected_ shunit_actual_
return ${SHUNIT_FALSE}
}
_FAIL_NOT_EQUALS_='eval failNotEquals --lineno "${LINENO:-}"'

/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#
#       <funcdef><function>failSame</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Indicate test failure because arguments were not the same. The
#     message is optional.</para>
# </entry>
# </s:function>
#*/
failSame()
{
    ${_SHUNIT_LINENO_}
    if [ $# -lt 2 -o $# -gt 3 ]; then
        _shunit_error 'failSame() requires two or three arguments'
        return ${SHUNIT_ERROR}
    fi
    _shunit_shouldSkip && return ${SHUNIT_TRUE}

    [ -z "${shunit_message_:-}" ] && shunit_message_="
    if [ $# -eq 3 ]; then

```

```

shunit_message_="${shunit_message_}$1"
shift
fi

_shunit_testFailed "${shunit_message_:+${shunit_message_} }expected not same"

unset shunit_message_
return ${SHUNIT_FALSE}
}

_FAIL_SAME_='eval failSame --lineno "${LINENO:-}"'

/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <functsynopsis>
#     <funcprototype>
#       <funcdef><function>failNotSame</function></funcdef>
#
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>expected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </functsynopsis>
#   <para>Fails the test if <emphasis>expected</emphasis> and
#   <emphasis>actual</emphasis> are equal to one another. The message is
#   optional.</para>
# </entry>
# </s:function>
#*/
failNotSame()
{
  ${_SHUNIT_LINENO_}
  if [ $# -lt 2 -o $# -gt 3 ]; then
    _shunit_error 'failNotEquals() requires one or two arguments'
    return ${SHUNIT_ERROR}
  fi
  _shunit_shouldSkip && return ${SHUNIT_TRUE}

  if [ $# -eq 2 ]; then
    failNotEquals "$1" "$2"
  else
    failNotEquals "$1" "$2" "$3"
  fi
}

_FAIL_NOT_SAME_='eval failNotSame --lineno "${LINENO:-}"'

```

```

#-----
# skipping functions
#

/**
# <s:function group="skipping">
# <entry
#   align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#   <funcprototype>
#   <funcdef><function>startSkipping</function></funcdef>
#   <paramdef />
#   </funcprototype>
# </funcsynopsis>
# <para>This function forces the remaining assert and fail functions to be
# "skipped", i.e. they will have no effect. Each function skipped will be
# recorded so that the total of asserts and fails will not be altered.</para>
# </entry>
# </s:function>
#*/
startSkipping()
{
    __shunit_skip=${SHUNIT_TRUE}
}

/**
# <s:function group="skipping">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#   <funcprototype>
#   <funcdef><function>endSkipping</function></funcdef>
#   <paramdef />
#   </funcprototype>
# </funcsynopsis>
# <para>This function returns calls to the assert and fail functions to their
# default behavior, i.e. they will be called.</para>
# </entry>
# </s:function>
#*/
endSkipping()
{

```

```

__shunit_skip=${SHUNIT_FALSE}
}

/**
# <s:function group="skipping">
# <entry align="right">
#   <emphasis>boolean</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>isSkipping</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function returns the state of skipping.</para>
# </entry>
# </s:function>
#*/
isSkipping()
{
    return $__shunit_skip
}

#-----
# suite functions
#

/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>suite</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function can be optionally overridden by the user in their test
#     suite.</para>
#   <para>If this function exists, it will be called when
#     <command>shunit2</command>
#     is sourced. If it does not exist, shUnit2 will
#     search the parent script for all functions beginning with the word
#     <literal>test</literal>, and they will be added dynamically to the test
#     suite.</para>

```

```

# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# suite() { ;; }

#/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <functsynopsis>
#     <funcprototype>
#       <funcdef><function>suite_addTest</function></funcdef>
#       <paramdef>string <parameter>function</parameter></paramdef>
#     </funcprototype>
#   </functsynopsis>
#   <para>This function adds a function name to the list of tests scheduled for
#   execution as part of this test suite. This function should only be called
#   from within the <function>suite()</function> function.</para>
# </entry>
# </s:function>
#*/
suite_addTest()
{
    _su_func=${1:-}

    __shunit_suite="$_shunit_suite:$_su_func"

    unset _su_func
}

#/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <functsynopsis>
#     <funcprototype>
#       <funcdef><function>oneTimeSetUp</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </functsynopsis>
#   <para>This function can be optionally overridden by the user in their
#   test suite.</para>

```

```

# <para>If this function exists, it will be called once before any tests are
# run. It is useful to prepare a common environment for all tests.</para>
# </entry>
# </s:function>
#*/

# Note: see _shunit_mktempFunc() for actual implementation
# oneTimeSetUp() { ;; }

#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
# <funcdef><function>oneTimeTearDown</function></funcdef>
# <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function can be be
# optionally overridden by the user in their
# test suite.</para>
# <para>If this function exists, it will be called once after all tests are
# completed. It is useful to clean up the environment after all tests.</para>
# </entry>
# </s:function>
#*/

# Note: see _shunit_mktempFunc() for actual implementation
# oneTimeTearDown() { ;; }

#/**
# <s:function group="suites">
# <entry align="right">
# <emphasis>void</emphasis>
# </entry>
# <entry>
# <funcsynopsis>
# <funcprototype>
# <funcdef><function>setUp</function></funcdef>
# <paramdef />
# </funcprototype>
# </funcsynopsis>
# <para>This function can be be optionally overridden by the user in their
# test suite.</para>
# <para>If this function exists, it will be called before each test is run.
# It is useful to reset the environment before each test.</para>
# </entry>

```



```

# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# setUp() { ;; }

#/**
# <s:function group="suites">
#
#   <entry align="right">
#     <emphasis>void</emphasis>
#   </entry>
#   <entry>
#     <functsynopsis>
#       <funcprototype>
#         <funcdef><function>tearDown</function></funcdef>
#         <paramdef />
#       </funcprototype>
#     </functsynopsis>
#     <para>This function can be optionally overridden by the user in their
# test suite.</para>
#     <para>If this function exists, it will be called after each test completes.
# It is useful to clean up the environment after each test.</para>
#   </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# tearDown() { ;; }

#-----
# internal shUnit2 functions
#

_shunit_cleanup()
{
  name=$1

  case ${name} in
    EXIT) signal=0 ;;
    INT) signal=2 ;;
    TERM) signal=15 ;;
    *)
      _shunit_warn "unrecognized trap value (${name})"
      signal=0
      ;;
  esac

  # do our work
  rm -fr "${__shunit_tmpDir}"

```

```

# exit for all non-EXIT signals

if [ ${name} != 'EXIT' ]; then
    _shunit_warn "trapped and now handling the (${name}) signal"
    _shunit_generateReport
    # disable EXIT trap
    trap 0
    # add 128 to signal and exit
    exit `expr ${signal} + 128`
fi
}

_shunit_execSuite()
{
    echo '#'
    echo '# Performing tests'
    echo '#'
    for _su_func in ${__shunit_suite}; do
        # disable skipping
        endSkipping

        # execute the per-test setup function
        setUp

        # execute the test
        echo "${_su_func}"
        eval ${_su_func}

        # execute the per-test tear-down function
        tearDown
    done

    unset _su_func
}

_shunit_generateReport()
{
    _su__awkPercent='{printf("%4d %3.0f%%", $1, $1*100/$2)}'
    if [ ${__shunit_testsTotal:-0} -gt 0 ]; then
        _su__passed=`echo ${__shunit_testsPassed} ${__shunit_testsTotal} | \
            awk "${_su__awkPercent}"`
        _su__failed=`echo ${__shunit_testsFailed} ${__shunit_testsTotal} | \
            awk "${_su__awkPercent}"`
        _su__skipped=`echo ${__shunit_testsSkipped} ${__shunit_testsTotal}
        | \
            awk "${_su__awkPercent}"`
        _su__total=`echo ${__shunit_testsTotal} 100 | \

```

```

        awk '{printf("%4d %3d%%", $1, $2)}'`
else
    _su__passed=`echo 0 0 |awk '{printf("%4d %3d%%", $1, $2)}'`
    _su__failed=${_su__passed}
    _su__skipped=${_su__passed}
    _su__total=${_su__passed}
fi

cat <<EOF

#
# Test report
#
tests passed: ${_su__passed}
tests failed: ${_su__failed}
tests skipped: ${_su__skipped}
tests total:  ${_su__total}
EOF

unset _su__awkPercent _su__passed _su__failed _su__skipped _su__total
}

# this function is a cross-platform temporary directory creation tool. not all
# OSes have the mktemp function, so one is included here.
_shunit_mktempDir()
{
    # try the standard mktemp function
    ( exec mktemp -dqt shunit.XXXXXX 2>/dev/null ) && return

    # the standard mktemp didn't work. doing our own.
    if [ -r '/dev/urandom' ]; then
        _su__random=`od -vAn -N4 -tx4 </dev/urandom |sed 's/^[^0-9a-f]*/'`
    elif [ -n "${RANDOM:-}" ]; then
        # $RANDOM
        works
        _su__random=${RANDOM}${RANDOM}${RANDOM}$$
    else
        # $RANDOM doesn't work
        _su__date=`date '+%Y%m%d%H%M%S'`
        _su__random=`expr ${_su__date} / $$`
    fi

    _su__tmpDir="${TMPDIR:-/tmp}/shunit.${_su__random}"
    ( umask 077 && mkdir "${_su__tmpDir}" ) || {
        echo 'shUnit:FATAL could not create temporary directory! exiting' >&2
        exit 1
    }
}

```

```

echo ${_su__tmpDir}
unset _su__date _su__random _su__tmpDir
}

# this function is here to work around issues in Cygwin
_shunit_mktempFunc()
{
for _su__func in oneTimeSetUp oneTimeTearDown setUp tearDown suite; do
    _su__file="${__shunit_tmpDir}/${_su__func}"
    cat <<EOF >"${_su__file}"
#! /bin/sh
exit 0
EOF
    chmod +x "${_su__file}"
done

unset _su__file
}

_shunit_shouldSkip()
{
[ ${__shunit_skip} -eq ${SHUNIT_FALSE} ] && return ${SHUNIT_FALSE}
_shunit_testSkipped
}

_shunit_testPassed()
{
__shunit_testsPassed=`expr ${__shunit_testsPassed} + 1`
__shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
}

_shunit_testFailed()
{
_su__msg=$1

__shunit_testsFailed=`expr ${__shunit_testsFailed} + 1`
__shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
echo "${__SHUNIT_ASSERT_MSG_PREFIX}${_su__msg}" >&2

unset _su__msg
}

_shunit_testSkipped()
{
__shunit_testsSkipped=`expr ${__shunit_testsSkipped} + 1`
__shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
}

```

```

#-----
# main
#

# create a temporary storage location
__shunit_tmpDir=`_shunit_mktempDir`

# setup traps to clean up after ourselves
trap '_shunit_cleanup EXIT' 0
trap '_shunit_cleanup INT' 2
trap '_shunit_cleanup TERM' 15

# create phantom functions to work around issues with Cygwin
_shunit_mktempFunc
PATH="$_shunit_tmpDir:${PATH}"

# execute the oneTimeSetUp function (if it exists)
oneTimeSetUp

# execute the suite function defined in the parent test script
# deprecated as of 2.1.0
suite

# if no suite function was defined, dynamically build a list
# of functions
if [ -z "$__shunit_suite" ]; then
    shunit_funcs=`grep "^[ \t]*test[A-Za-z0-9_]* *()" $__SHUNIT_PARENT` \
        |sed 's/^[^A-Za-z0-9_]/g`
    for shunit_func_ in ${shunit_funcs_}; do
        suite_addTest ${shunit_func_}
    done
fi
unset shunit_func_ shunit_funcs_

# execute the tests
_shunit_execSuite

# execute the oneTimeTearDown function (if it exists)
oneTimeTearDown

# generate report
_shunit_generateReport

# restore the previous set of shell flags
for shunit_shellFlag_ in $__SHUNIT_SHELL_FLAGS; do
    echo ${shunit_shellFlag_} |grep ${shunit_shellFlag_} >/dev/null \
        || set +${shunit_shellFlag_}
done

```

```
unset shunit_shellFlag_ shunit_shellFlags_
```

```
[ ${__shunit_testsFailed} -eq 0 ] || exit 1
```

```
##/**
```

```
# </s:shelldoc>
```

```
##*/
```

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/tests/shunit2/shunit2/shunit2

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```
/*
```

* usock - socket helper functions

```
*
```

* Copyright (C) 2010 Steven Barth <steven@midlink.org>

* Copyright (C) 2011-2012 Felix Fietkau <nbd@openwrt.org>

```
*
```

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```
*/
```

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/usock.c

```
*
```

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-

d2223ef9/ipkg-install/usr/include/libubox/usock.h

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/usock.h

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```
/*
```

* blob - library for generating/parsing tagged binary data

```
*
```

* Copyright (C) 2010 Felix Fietkau <nbd@openwrt.org>

```
*
```

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 */

Found in path(s):

* /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blob.h
 *
 /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/blob.h
 * /opt/cola/permits/1601489760_1679570334.9746232/0/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blob.c

1.49 libcgroup 0.41

1.49.1 Available under license :

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/* nicstar.c v0.22 Jawaidd Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaidd Bazyar, Interlink Advertising Services Inc.

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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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1.54 ejdb 1.2.12

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1.55 opkg 2022-02-24

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1.58 libnetconf 0.10.0

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1.59 libuuid 2.37.3

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	NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01	
2	7680	16383	8704	4.3M		8f8378c0-02	
5	7936	12799	4864	2.4M			
6	12544	16127	3584	1.8M			

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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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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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is what you want to do, use the GNU Lesser General
Public License instead of this License.

```
#!/usr/bin/env bash
```

```
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
    local FILE="$1"
```

```
    # Read the contents of the file into a variable
```

```
    local raw_license_text=$(<"$FILE")
```

```
    # Convert to lowercase
```

```
    local lowercase_license_text="${raw_license_text,,}"
```

```
    # Remove anything before the beginning of the license
```

```
    local stripped_license_text=$(awk '/permission is hereby granted/{p=1} p' <<< "$lowercase_license_text")
```

```
    # Replace line breaks (Windows or Linux) with a single space
```

```
    local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
    # Replace multiple spaces with a single space
```

```
    local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
    # Strip away any non-printable, non-whitespace characters
```

```
    local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
    # Remove punctuation and special characters
```

```

local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
    echo "Please provide a FILE as an argument."
    exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789;,<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.60 ziplib 1

1.60.1 Available under license :

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```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project
```

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<http://www.winimage.com/zLibDll/minizip.html>
Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson
<http://result42.com>

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*/

Found in path(s):

* /opt/cola/permits/1840794387_1699249437.3407238/0/ziplib-tar-gz/ziplib/zip.h

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```
/* ioapi.h -- IO base function header for compress/uncompress .zip
part of the MiniZip project
```

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*/

Found in path(s):

* /opt/cola/permits/1840794387_1699249437.3407238/0/ziplib-tar-gz/ziplib/ioapi.h

* /opt/cola/permits/1840794387_1699249437.3407238/0/ziplib-tar-gz/ziplib/ioapi.c

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```
/* zip.c -- IO on .zip files using zlib
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part of the MiniZip project
```

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*/

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* /opt/cola/permits/1840794387_1699249437.3407238/0/zlib-tar-gz/zlib/zip.c
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/* minizip.c
Version 1.1, February 14h, 2010
sample part of the MiniZip project

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* /opt/cola/permits/1840794387_1699249437.3407238/0/zlib-tar-gz/zlib/minizip.c
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/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (<http://www.winimage.com/zLibDll/minizip.html>)

Modifications of Unzip for Zip64
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Modifications for Zip64 support on both zip and unzip
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For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method

BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

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* /opt/cola/permits/1840794387_1699249437.3407238/0/ziplib-tar-gz/ziplib/unzip.c

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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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://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

Found in path(s):

* /opt/cola/permits/1840794387_1699249437.3407238/0/ziplib-tar-gz/ziplib/zlib.h

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/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - (<http://www.winimage.com/zLibDll/minizip.html>)

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Changes

See header of unzip64.c

*/

Found in path(s):

* /opt/cola/permits/1840794387_1699249437.3407238/0/ziplib-tar-gz/ziplib/unzip.h

1.61 base-files 1494-r19803-9a599fee93

1.61.1 Available under license :

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Package: base-files

Version: 1494-r19803-9a599fee93

Depends: libc, librt, libpthread, netifd, jsonfilter, usign, openwrt-keyring, ubi-utils, fstools, fwtool

Source: package/base-files

SourceName: base-files

License: GPL-2.0

Section: base

SourceDateEpoch: 1665837957

Architecture: aarch64_cortex-a72

Installed-Size: 46999

Description: This package contains a base filesystem and system scripts for OpenWrt.

Found in path(s):

* /opt/cola/permits/1840794520_1699588581.4086747/0/base-files-1494-r19803-9a599fee93-tar-gz/base-files/ipkg-aarch64_cortex-a72/base-files/CONTROL/control

1.62 logd 2021-08-03-205defb5-2

1.62.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/getrandom.c

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/*

```

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```

Found in path(s):

```

* /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/validate/validate.c

```

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```

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*/

```

Found in path(s):

```

* /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/log/logread.c
* /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/kmodloader.c

```

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Found in path(s):

- * /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/lsbloader.c

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- * /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/log/syslog.h
- * /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/log/logd.c
- * /opt/cola/permits/1840797131_1699325739.3720105/0/ubox-2021-08-03-205defb5-tar-xz/ubox-2021-08-03-205defb5/log/syslog.c

1.63 wolfssl 5.5.1.ee39414e_5.5.1-stable-3

1.63.1 Available under license :

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Version 2, June 1991

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};

untrusted {

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};

};

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