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Written by Adam Twiss (adam@zeus.co.uk). March 1996
Thanks to the following people for their input:
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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OSXAdapter

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#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/mpl.hpp>
#include <cassert>
namespace boost {
namespace container {
namespace container_detail {
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;

namespace boost {
namespace container {
namespace container_detail {

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 Pair>
struct select1st 
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

} //namespace container_detail {
} //namespace container {
} //namespace boost {

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifdef 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;

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

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 <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; }; 
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_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 <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;   }
    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; } 
};

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
/////////////////////////////////////////////////////////////////////////////
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//
/////////////////////////////////////////////////////////////////////////////
#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 <cstddef>
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;

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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, typename DefaultType>  \
  struct boost_intrusive_default_type_## TNAME  \
  {  \
    template <typename X>  \
    static char test(int, typename X::TNAME*);  \
    \
    template <typename X>  \
    static int test(...);  \
    \
    struct DefaultWrap { typedef DefaultType TNAME; };  \
    \
    static const bool value = (1 == sizeof(test<T>(0, 0)));  \
    \
    typedef typename  \
     ::boost::intrusive::detail::if_c                         \
     <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_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> \
     , ::boost::intrusive::detail::identity<DefaultWrap>  \
     , ::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(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
template <class T>\nstruct TRAITS_PREFIX##_bool\n{\n    template<bool Add>\n    struct two_or_three {yes_type _[2 + Add];};\n    template <class U> static yes_type test(...);\n    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\n    static const std::size_t value = sizeof(test<T>(0));\n};\n\ntemplate <class T>\nstruct TRAITS_PREFIX##_bool_is_true\n{\n    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\n};\n
//

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{\n
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(TRAITS_NAME, FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) 

\template <typename Type, class> 
struct TRAITS_NAME 
    : public TRAITS_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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included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
-------------------------------

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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BSON library for Go

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------------------------------------------------------------
mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
# Creation Date: 2008-02-07
# Author: Sharique Abdullah
# Description: Test Cases of Dynamic System Variable license
# that checks the behavior of this variable in the following ways
# * Value Check
# * Scope Check

--echo '#---------------------BS_STVARS_040_01----------------------#'
# Displaying default value

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '---------------------BS_STVARS_040_02----------------------#'

# Check if Value can set

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '---------------------BS_STVARS_040_03----------------------#'

# Check if the value in GLOBAL Table matches value in variable

--disable_warnings
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--enable_warnings
--echo 1 Expected

--disable_warnings
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--disable_warnings
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--enable_warnings
--echo 1 Expected

--echo '---------------------BS_STVARS_040_04----------------------#'

--disable_warnings
SELECT @GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--enable_warnings
--echo 1 Expected

--disable_warnings
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--disable_warnings
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--enable_warnings
--echo 1 Expected

--echo '---------------------BS_STVARS_040_04----------------------#'
-- Check if accessing variable with and without GLOBAL point to same variable
--
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#'
--
# Check if license can be accessed with and without @@ sign
#--
SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Read only variable'

'#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
1
1 Expected

'#---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'#:---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#:---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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call mtr.add_suppression("Message of size .* received, exceeding the limit of");

--echo Setup
--source ../include/xplugin_preamble.inc

--echo Test
--let $_server_license= `SELECT IF(@@license = 'Commercial', 'PROPRIETARY', @@license);`
--let $_plugin_license= `select plugin_license from information_schema.plugins where plugin_name='mysqlx'

if ($_server_license != $_plugin_license)
{

--echo Licenses doesn't match
--echo Servers license: $_server_license
--echo Plugins license: $_plugin_license

if ($_server_license == $_plugin_license)
{
  --echo License ok
}

--echo Cleanup
UNINSTALL PLUGIN `mysqlx`;
call mtr.add_suppression("Message of size .* received, exceeding the limit of");

Setup
install plugin mysqlx soname "mysqlx.so";
call mtr.add_suppression("Plugin mysqlx reported: .Failed at SSL configuration: .SSL context is not usable without certificate and private key..");
call mtr.add_suppression("Plugin mysqlx reported: .SSL_CTX_load_verify_locations failed.");

Test
License ok
Cleanup
UNINSTALL PLUGIN `mysqlx`;

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#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 <cstdlib>

namespace boost {
namespace container {
namespace container_detail {
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_;}
namespace container_detail {
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 Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

    template<class OtherPair>
    const typename Pair::first_type & operator()(const OtherPair& x) const
    {  return x.first;   }

    const typename Pair::first_type & operator()(const typename Pair::first_type& x) const
    {  return x;   }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

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

#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 <class T, class U> 
    class is_convertible 
    {
        typedef char true_t;
    };
}
class false_t { char dummy[2]; };  
static true_t dispatch(U);  
static false_t dispatch(...);  
static T trigger();  
public:  
static const bool value = sizeof(dispatch(trigger())) == sizeof(true_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 <class Pair>  
struct select1st  
// : public std::unary_function<Pair, typename Pair::first_type>  
{  
template<class OtherPair>  
const typename Pair::first_type& operator()(const OtherPair& x) const  
{  
    return x.first;  
  }  

const typename Pair::first_type& operator()(const typename Pair::first_type& x) const  
{  
    return x;  
  }  

template <class T>
struct identity
//   : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
        { return x; }
};

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;
};
#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 <cstddef>

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::remove_reference_t;
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, typename DefaultType>                    
    struct boost_intrusive_default_type_ ## TNAME                  
    {
        template <typename X>                                       
        static char test(int, typename X::TNAME*);                  
        
        template <typename X>                                       
        static int test(...);                                       
        
        struct DefaultWrap { typedef DefaultType TNAME; };          
        
        static const bool value = (1 == sizeof(test<T>(0, 0)));     
        
        typedef typename                                            
            ::boost::intrusive::detail::if_c                         
            <value, T, DefaultWrap>::type::TNAME type;            
    };                                                             

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   


typedef typename INSTANTIATION_NS_PREFIX
    boost_intrusive_default_type_##TNAME< T, TIMPL >::type

//

#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(TRAITS_PREFIX, TYPEDEF_TO_FIND)
    template <class T>
        struct TRAITS_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

//

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \n  BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

template <typename Type, class> \nstruct TRAITS_NAME \n  : public TRAITS_NAME##_ignore_signature<Type> \n{ };
MEMCACHED CONTRIBUTORS

This file contains a list of people who have contributed code and effort to the memcached project. If you don't see your name mentioned send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

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* Fixed initialization ordering problem in logging code.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
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#define UV_IO_PRIVATE_PLATFORM_FIELDS
    int rcount;
    int wcount;

#define UV_HAVE_KQUEUE 1

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// Original can be found at:
//  https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//  https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
//  Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//  Date: 2011-02-01
//
// Variations:
//  * Allows typed_array.get/set() as alias for subscripts (typed_array[])

//
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<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<title></title>
<meta name="description" content="">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="created-with" content="https://github.com/rvagg/gfm2html">

<style type="text/css">
/* most of normalize.css */
article,aside,details,figcaption,figure,footer,header,hgroup,main,nav,section,summary{display:block;}[hidden],template{display:none;}html{font-family:sans-serif;/*1*/-ms-text-size-adjust:100%;/*2*/-webkit-text-size-adjust:100%;/*1*/body{margin:0;}a{background:transparent;}a:focus{outline:thindotted;}a:active,a:hover{outline:0;}h1{font-size:2em;margin:0.67em0;}abbr[title]{border-bottom:1pxdotted;}
hr{-moz-box-sizing:content-box;box-sizing:content-box;height:0;}mark{background:#ff0;color:#000;}code,kbd,pre,samp{font-family:monospace,serif;font-size:1em;}pre{white-space:pre-wrap;}q{quotes:"\201C""\201D""\2018""\2019";small{font-size:80%;}sub,sup{font-size:75%;line-height:0;position:relative;vertical-align:baseline;}sup{top:-0.5em;}sub{bottom:-0.25em;}img{border:0;}svg:not(:root){overflow:visible;margin:0}table{border-collapse:collapse;border-spacing:0;}

html {
    font: 14px 'Helvetica Neue', Helvetica, arial, freesans, clean, sans-serif;
}

.container {
    line-height: 1.6;
    color: #333;
    background: #eee;
    border-radius: 3px;
    padding: 3px;
    width: 790px;
    margin: 10px auto;
}

.body-content {
    background-color: #fff;
    border: 1px solid #CACACA;
    padding: 30px;
}

.body-content > *:first-child {
    margin-top: 0 !important;
}
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
validForNewPackages: true,
validForOldPackages: true,
spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
valid('Apache 2.0'),
{
validForOldPackages: false,
validForNewPackages: false,
warnings: [
'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
'"UNLICENSED", or ' +
'"SEE LICENSE IN <filename>"',
'license is similar to the valid expression "Apache-2.0"'
]
}
);
```

SPDX expressions are valid, too ...
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
    valid('GPL-3.0 OR BSD-2-Clause'),
    validSPDXExpression
);

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
    validForOldPackages: false,
    validForNewPackages: false,
    spdx: true,
    warnings: [
        'license should be ' +
        'a valid SPDX license expression (without "LicenseRef"), ' +
        '"UNLICENSED", or ' +
        '"SEE LICENSE IN <filename>"',
    ]
};

assert.deepEqual(
    valid('LicenseRef-Made-Up'),
    warningAboutLicenseRef
);

assert.deepEqual(
    valid('MIT OR LicenseRef-Made-Up'),
    warningAboutLicenseRef
);

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package
and point users there:

```javascript
assert.deepEqual(
    valid('SEE LICENSE IN LICENSE.txt'),
    {
        validForNewPackages: true,
        validForOldPackages: true,
        inFile: 'LICENSE.txt'
    }
);
```

valid('SEE LICENSE IN license.md'),
{
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
}
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

```javascript
var correct = require('spdx-correct');
var assert = require('assert');
assert.equal(correct('mit'), 'MIT')
assert.equal(correct('Apache 2'), 'Apache-2.0')
assert(correct('No idea what license') === null)
```

# spdx-license-ids

A list of [SPDX license](https://spdx.org/licenses/) identifiers

[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

### Use as a JavaScript Library

[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids/dev-status.svg)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)
### Installation

#### Package managers

##### [npm](https://www.npmjs.com/)

```sh
```
```

##### [bower](http://bower.io/)

```sh
```
```

##### [Duo](http://duojs.org/)

```javascript
```
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

#### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
```
```

## License

[The Unlicense](./LICENSE).

["Glide", "Abstyles", "AFL-1.1", ...]
"AFL-2.0",
"AFL-2.1",
"AFL-3.0",
"AMPAS",
"APL-1.0",
"Adobe-Glyph",
"APAFML",
"Adobe-2006",
"AGPL-1.0",
"Afmparse",
"Aladdin",
"ADSL",
"AMDPLPA",
"ANTLR-PD",
"Apache-1.0",
"Apache-1.1",
"Apache-2.0",
"AML",
"APSL-1.0",
"APSL-1.1",
"APSL-1.2",
"APSL-2.0",
"Artistic-1.0",
"Artistic-1.0-Perl",
"Artistic-1.0-cl8",
"Artistic-2.0",
"AAL",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"BSL-1.0",
"Borceux",
"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-3-Clause",
"BSD-3-Clause-Clear",
"BSD-4-Clause",
"BSD-Protection",
"BSD-Source-Code",
"BSD-3-Clause-Attribution",
"0BSD",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera"
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"ClArtistic",
"MIT-CMU",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"CPOL-1.02",
"CDDL-1.0",
"CDDL-1.1",
"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"Condor-1.1",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-4.0",
"CC-BY-ND-1.0",
"CC-BY-ND-2.0",
"CC-BY-ND-2.5",
"CC-BY-ND-3.0",
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"CC-BY-NC-ND-2.5",
"CC-BY-NC-ND-3.0",
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"CC-BY-NC-SA-3.0",
"CC-BY-NC-SA-4.0",
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"CC-BY-SA-2.0",
"CC-BY-SA-2.5",
"CC-BY-SA-3.0",
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"CUA-OPL-1.0",
"Cube",
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"DSDP",
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"eGenix",
"EFL-1.0",
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"MIT-advertising",
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"EUPL-1.0",
"EUPL-1.1",
"Eurosym",
"Fair",
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"Frameworx-1.0",
"FreeImage",
"FTL",
"FSFAP",
"FSFUL",
"FSFULLR",
"Giftware",
"GL2PS",
"Glulxe",
"AGPL-3.0",
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"GFDL-1.3",
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"LGPL-2.0"
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"gSOAP-1.3b",
"HaskellReport",
"HPND",
"IBM-pibs",
"IPL-1.0",
"ICU",
"ImageMagick",
"iMatix",
"Imlib2",
"IJG",
"Info-ZIP",
"Intel-ACPI",
"Intel",
"Interbase-1.0",
"IPA",
"ISC",
"JasPer-2.0",
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"LPPL-1.2",
"LPPL-1.3a",
"LPPL-1.3c",
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"LGPLLR",
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"libtiff",
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"LAL-1.3",
"LiLiQ-P-1.1",
"LiLiQ-Rplus-1.1",
"LiLiQ-R-1.1",
"LPL-1.02",
"LPL-1.0",
"MakeIndex",
"MTLL",
"MS-PL",
"MS-RL",
"MirOS",
"MITNFA",
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"Motosoto",
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"NLPL",
"Nokia",
"NPOS-3.0",
"NLOD-1.0",
"Noweb",
"NRL",
"NTP",
"Nunit",
"OCLC-2.0",
"ODbL-1.0",
"PDDL-1.0",
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"OML",
"OPL-1.0",
"OSL-1.0",
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"OSL-2.0",
"OSL-2.1"
"OSL-3.0",
"OpenSSL",
"OSET-PL-2.1",
"PHP-3.0",
"PHP-3.01",
"Plexus",
"PostgreSQL",
"psfrag",
"psutils",
"Python-2.0",
"QPL-1.0",
"Qhull",
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"RSCPL",
"RSA-MD",
"Ruby",
"SAX-PD",
"Saxpath",
"SCEA",
"SWL",
"SMPPL",
"Sendmail",
"SGI-B-1.0",
"SGI-B-1.1",
"SGI-B-2.0",
"OFL-1.0",
"OFL-1.1",
"SimPL-2.0",
"Sleepycat",
"SNIA",
"Spencer-86",
"Spencer-94",
"Spencer-99",
"SMLNJ",
"SugarCRM-1.1.3",
"SISSL",
"SISSL-1.2",
"SPL-1.0",
"Watcom-1.0",
"TCL",
"Unlicense",
"TMate",
"TORQUE-1.1",
"TOSL"
"Unicode-TOU",
"UPL-1.0",
"NCSA",
"Vim",
"VOSTROM",
"VSL-1.0",
"W3C-19980720",
"W3C",
"Wsuipa",
"Xnet",
"X11",
"Xerox",
"XFree86-1.1",
"xinetd",
"xpp",
"XSkat",
"YPL-1.0",
"YPL-1.1",
"Zed",
"Zend-2.0",
"Zimbra-1.3",
"Zimbra-1.4",
"Zlib",
"zlib-acknowledgement",
"ZPL-1.1",
"ZPL-2.0",
"ZPL-2.1",
"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-3-Clause-No-Nuclear-License-2014",
"eCos-2.0",
"GPL-2.0-with-autoconf-exception",
"GPL-2.0-with-bison-exception",
"GPL-2.0-withclasspath-exception",
"GPL-2.0-with-font-exception",
"GPL-2.0-with-GCC-exception",
"GPL-3.0-with-autoconf-exception",
"GPL-3.0-with-GCC-exception",
"StandardML-NJ",
"WXwindows"
]}

{"_from": "spdx-license-ids@^1.0.2",
"_id": "spdx-license-ids@1.2.2",
"_integrity": "sha1-yd96NCRZSt5r0RkA1ZZpbcBrrFc=",
"_location": "/validate-npm-package-license/spdx-correct/spdx-license-ids",
"_phantomChildren": {},
"_requested": {"Open Source Used In ise-tools 1.4"}
"type": "range",
"registry": true,
"raw": "spdx-license-ids@^1.0.2",
"name": "spdx-license-ids",
"escapedName": "spdx-license-ids",
"rawSpec": "^1.0.2",
"saveSpec": null,
"fetchSpec": "^1.0.2"
},
"_requiredBy": [
"/validate-npm-package-license/spdx-correct"
],
"_resolved": "https://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.2.tgz",
"_shasum": "c9df7a3424594ade6bd11900d596696dc06bac57",
"_shrinkwrap": null,
"_spec": "spdx-license-ids@^1.0.2",
"_where": "/Users/zkat/Documents/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-correct",
"author": {
"name": "Shinnosuke Watanabe",
"url": "https://github.com/shinnn"
},
"bin": null,
"bugs": {
"url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"bundleDependencies": false,
"dependencies": {},
"deprecated": false,
"description": "A list of SPDX license identifiers",
"devDependencies": {
"@shinnn/eslint-config-node": "^3.0.0",
"chalk": "^1.1.3",
"eslint": "^3.1.1",
"get-spdx-license-ids": "^1.0.0",
"istanbul": "^0.4.4",
"loud-rejection": "^1.6.0",
"rimraf-promise": "^2.0.0",
"stringify-object": "^2.4.0",
"tap-spec": "^4.1.1",
"tape": "^4.6.0",
"write-file-atomically": "1.0.0"
},
"files": [
"spdx-license-ids.json"
],
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"keywords": ["spdxLicenses"]
"spdx",
"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss",
"browser",
"client-side"
],
"license": "Unlicense",
"main": "spdx-license-ids.json",
"name": "spdx-license-ids",
"optionalDependencies": {},
"peerDependencies": {},
"repository": {
  "type": "git",
  "url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"scripts": {
  "build": "node --strong_mode build.js",
  "coverage": "node --strong_mode node_modules/.bin/istanbul cover test.js",
  "lint": "eslint --config @shinnn/node --env browser --ignore-path .gitignore .",
  "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
  "test": "node --strong_mode test.js | tap-spec"
},
"version": "1.2.2"
}

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OTHER DEALINGS IN THE SOFTWARE.

For more information, please refer to <http://unlicense.org/>
var licenseIDs = require('spdx-license-ids');

function valid(string) {
  return licenseIDs.indexOf(string) > -1;
}

// Common transpositions of license identifier acronyms
var transpositions = [
  ['APGL', 'AGPL'],
  ['Gpl', 'GPL'],
  ['GLP', 'GPL'],
  ['APL', 'Apache'],
  ['ISD', 'ISC'],
  ['GLP', 'GPL'],
  ['IST', 'ISC'],
  ['Claude', 'Clause'],
  [' or later', '+'],
  [' International', ''],
  ['GNU', 'GPL'],
  ['GUN', 'GPL'],
  ['+', ''],
  ['GNU GPL', 'GPL'],
  ['GNU/GPL', 'GPL'],
  ['GNU GLP', 'GPL'],
  ['GNU General Public License', 'GPL'],
  ['Gnu public license', 'GPL'],
  ['GNU Public License', 'GPL'],
  ['GNU GENERAL PUBLIC LICENSE', 'GPL'],
  ['MTI', 'MIT'],
  ['Mozilla Public License', 'MPL'],
  ['WTH', 'WTF'],
  ['-License', '']
];

var TRANSPOSED = 0;
var CORRECT = 1;

// Simple corrections to nearly valid identifiers.
var transforms = [
  // e.g. 'mit'
  function(argument) {
    return argument.toUpperCase();
  }];
// e.g. 'MIT'
function(argument) {
  return argument.trim();
},
// e.g. 'M.I.T.'
function(argument) {
  return argument.replace(/\./g, ",");
},
// e.g. 'Apache-2.0'
function(argument) {
  return argument.replace(/\s+/g, ",");
},
// e.g. 'CC BY 4.0'
function(argument) {
  return argument.replace(/\s+/g, ",");
},
// e.g. 'LGPLv2.1'
function(argument) {
  return argument.replace(/\v\,\-\)/,
},
// e.g. 'Apache 2.0'
function(argument) {
  return argument.replace(/\,\s*(\d)/,
},
// e.g. 'Apache Version 2.0'
function(argument) {
  return argument.replace(/\,\s*(V\,|v\,|V\,|v|Version|version)\s*(\d)/,
},
// e.g. 'Apache Version 2'
function(argument) {
  return argument.replace(/\,\s*(\d)/,
},
// e.g. 'ZLIB'
function(argument) {
  return argument[0].toUpperCase() + argument.slice(1);
},
// e.g. 'MPL/2.0'
function(argument) {
  return argument.replace(/\,\,\-\)/,
},
// e.g. 'Apache 2'
function(argument) {
  return argument
// e.g. 'GPL-2.0-
function(argument) {
    return argument.slice(0, argument.length - 1);
},
// e.g. 'GPL2'
function(argument) {
    return argument.replace(/\(d)/, '-$1.0');
},
// e.g. 'BSD 3'
function(argument) {
    return argument.replace(/\(d)/, '-$2-Clause');
},
// e.g. 'BSD clause 3'
function(argument) {
    return argument.replace(/\(\d\)/, '-$3-Clause');
},
// e.g. 'BY-NC-4.0'
function(argument) {
    return 'CC-' + argument;
},
// e.g. 'BY-NC'
function(argument) {
    return 'CC-' + argument + '-4.0';
},
// e.g. 'Attribution-NonCommercial'
function(argument) {
    return 'cc-
    .replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace('/', '-$1')
    .replace(/ ?International/, "");
},
// e.g. 'Attribution-NonCommercial'
function(argument) {
    return 'cc-
    .replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace('/', '-$1')
    .replace(/ ?International/, "") + '-4.0';
};
// If all else fails, guess that strings containing certain substrings
// meant to identify certain licenses.
var lastResorts = [
    ['UNLI', 'Unlicense'],
    ['WTF', 'WTFPL'],
    ['2 CLAUSE', 'BSD-2-Clause'],
    ['2-CLAUSE', 'BSD-2-Clause'],
    ['3 CLAUSE', 'BSD-3-Clause'],
    ['3-CLAUSE', 'BSD-3-Clause'],
    ['AFFERO', 'AGPL-3.0'],
    ['AGPL', 'AGPL-3.0'],
    ['APACHE', 'Apache-2.0'],
    ['ARTISTIC', 'Artistic-2.0'],
    ['Affero', 'AGPL-3.0'],
    ['BEER', 'Beerware'],
    ['BOOST', 'BSL-1.0'],
    ['BSD', 'BSD-2-Clause'],
    ['ECLIPSE', 'EPL-1.0'],
    ['FUCK', 'WTFPL'],
    ['GNU', 'GPL-3.0'],
    ['LGPL', 'LGPL-3.0'],
    ['GPL', 'GPL-3.0'],
    ['MIT', 'MIT'],
    ['MPL', 'MPL-2.0'],
    ['X11', 'X11'],
    ['ZLIB', 'Zlib']
];

var SUBSTRING = 0;
var IDENTIFIER = 1;

var validTransformation = function(identifier) {
    for (var i = 0; i < transforms.length; i++) {
        var transformed = transforms[i](identifier);
        if (transformed !== identifier && valid(transformed)) {
            return transformed;
        }
    }
    return null;
}

var validLastResort = function(identifier) {
    var upperCased = identifier.toUpperCase();
    for (var i = 0; i < lastResorts.length; i++) {
        var lastResort = lastResorts[i];
        if (upperCased.indexOf(lastResort[SUBSTRING]) > -1) {
            return lastResort[IDENTIFIER];
        }
    }
}
var anyCorrection = function(identifier, check) {
  for (var i = 0; i < transpositions.length; i++) {
    var transposition = transpositions[i];
    var transposed = transposition[TRANSPOSED];
    if (identifier.indexOf(transposed) > -1) {
      var corrected = identifier.replace(
        transposed,
        transposition[CORRECT]
      );
      var checked = check(corrected);
      if (checked !== null) {
        return checked;
      }
    }
  }
  return null;
};

module.exports = function(identifier) {
  identifier = identifier.replace(/\+$/,'');
  if (valid(identifier)) {
    return identifier;
  }
  var transformed = validTransformation(identifier);
  if (transformed !== null) {
    return transformed;
  }
  transformed = anyCorrection(identifier, function(argument) {
    if (valid(argument)) {
      return argument;
    }
    return validTransformation(argument);
  });
  if (transformed !== null) {
    return transformed;
  }
  transformed = validLastResort(identifier);
  if (transformed !== null) {
    return transformed;
  }
  transformed = anyCorrection(identifier, validLastResort);
  if (transformed !== null) {
    return transformed;
  }
  return null;
};
return null;

{
  "_from": "spdx-correct@~1.0.0",
  "_id": "spdx-correct@1.0.2",
  "_integrity": "sha1-SzBz2TP/UfORLwOSVRIJikJQ20A=",
  "_location": "../validate-npm-package-license/spdx-correct",
  "_phantomChildren": {},
  "_requested": {
    "type": "range",
    "registry": true,
    "raw": "spdx-correct@~1.0.0",
    "name": "spdx-correct",
    "escapedName": "spdx-correct",
    "rawSpec": "~1.0.0",
    "saveSpec": null,
    "fetchSpec": "~1.0.0"
  },
  "_requiredBy": ["../validate-npm-package-license"
    ]
  }
  "_resolved": "https://registry.npmjs.org/spdx-correct/-/spdx-correct-1.0.2.tgz",
  "_shasum": "4b3073d933ff51f3912f03ac5519498a4150db40",
  "_spec": "spdx-correct@~1.0.0",
  "_where": "../Users/zkat/Documents/code/npm/node_modules/validate-npm-package-license",
  "author": {
    "name": "Kyle E. Mitchell",
    "email": "kyle@kemitchell.com",
    "url": "https://kemitchell.com"
  },
  "bin": null,
  "bugs": {"url": "https://github.com/kemitchell/spdx-correct.js/issues"
    },
  "bundleDependencies": false,
  "dependencies": {
    "spdx-license-ids": "^1.0.2"
  },
  "deprecated": false,
  "description": "correct invalid SPDX identifiers",
  "devDependencies": {
    "defence-cli": "^1.0.1",
    "replace-require-self": "^1.0.0",
    "spdx-expression-parse": "^1.0.0",
    "tape": "~4.0.0"
  },
SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

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This package parses SPDX license expression strings describing license terms, like [package.json license strings](https://docs.npmjs.com/files/package.json#license), into consistently structured ECMAScript objects. The npm command-line interface depends on this package, as do many automatic license-audit tools.

In a nutshell:

```javascript
```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

assert.deepEqual(
// Licensed under the terms of the Two-Clause BSD License.
parse('BSD-2-Clause'),
{license: 'BSD-2-Clause'}
)

assert.throws(function () {
// An invalid SPDX license expression.
// Should be `Apache-2.0`.
parse('Apache 2')
})

assert.deepEqual(
// Dual licensed under LGPL 2.1 or a combination of the Three-Clause
// BSD License and the MIT License.
parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
{
  left: {license: 'LGPL-2.1'},
  conjunction: 'or',
  right: {
    left: {license: 'BSD-3-Clause'},
    conjunction: 'and',
    right: {license: 'MIT'}
  }
}
)
```

The syntax comes from the [Software Package Data eXchange (SPDX)](https://spdx.org/), a standard from the [Linux Foundation](https://www.linuxfoundation.org) for shareable data about software package license terms. SPDX aims to make sharing and auditing license data easy, especially for users of open-source software.

The bulk of the SPDX standard describes syntax and semantics of XML metadata files. This package implements two lightweight, plain-text components of that larger standard:

1. The [license list](https://spdx.org/licenses), a mapping from specific string identifiers, like `Apache-2.0`, to standard form license texts and bolt-on license exceptions. The [spdx-license-
ids][https://www.npmjs.com/package/spdx-exceptions) and [spdx-exceptions][https://www.npmjs.com/package/spdx-license-ids) packages implement the license list. They are development dependencies of this package.

Any license identifier from the license list is a valid license expression:

```javascript
require('spdx-license-ids').forEach(function (id) {
    assert.deepEqual(parse(id), {license: id})
})
```

So is any license identifier `WITH` a standardized license exception:

```javascript
require('spdx-license-ids').forEach(function (id) {
    require('spdx-exceptions').forEach(function (e) {
        assert.deepEqual(
            parse(id + ' WITH ' + e),
            {license: id, exception: e}
        )
    })
})
```

2. The license expression language, for describing simple and complex license terms, like `MIT` for MIT-licensed and `(GPL-2.0 OR Apache-2.0)` for dual-licensing under GPL 2.0 and Apache 2.0. This package implements the license expression language.

```javascript
assert.deepEqual(
// Licensed under a combination of the MIT License and a combination
// of LGPL 2.1 (or a later version) and the Three-Clause BSD License.
parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),
{
    left: {license: 'MIT'},
    conjunction: 'and',
    right: {
        left: {license: 'LGPL-2.1', plus: true},
        conjunction: 'and',
        right: {license: 'BSD-3-Clause'}
    }
}
)
```

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Kyle E. Mitchell <kyle@kemitchell.com> (https://kemitchell.com)
Shinnosuke Watanabe <snnskwtnb@gmail.com>

```javascript
var parser = require('./parser').parser
module.exports = function (argument) {
  return parser.parse(argument)
}
```

```
"_from": "spdx-expression-parse@~1.0.0",
"_id": "spdx-expression-parse@1.0.4",
"_integrity": "sha1-m98vIOH0DqRH++JzJmGR/O1RYmwe=",
"_location": "/validate-npm-package-license/spdx-expression-parse",
"_phantomChildren": {},
"_requested": {
  "type": "range",
  "registry": true,
  "raw": "spdx-expression-parse@~1.0.0",
  "name": "spdx-expression-parse",
  "escapedName": "spdx-expression-parse",
  "rawSpec": "~1.0.0",
  "saveSpec": null,
  "fetchSpec": "~1.0.0"
},
"_requiredBy": [
  "/validate-npm-package-license"
],
"_resolved": "https://registry.npmjs.org/spdx-expression-parse/-/spdx-expression-parse-1.0.4.tgz",
"_shasum": "9bdf2f20e1f40ed447fbe273266191fc6d51626e",
"_shrinkwrap": null,
"_spec": "spdx-expression-parse@~1.0.0",
"_where": "/Users/zkat/Documents/code/npm/node_modules(validate-npm-package-license",
"author": {
  "name": "Kyle E. Mitchell",
  "email": "kyle@kemitchell.com",
  "url": "http://kemitchell.com"
},
"bin": null,
"bugs": {
  "url": "https://github.com/kemitchell/spdx-expression-parse.js/issues"
},
"bundleDependencies": false,
"contributors": [
  {
    "name": "C. Scott Ananian",
    "email": "cscott@cscott.net",
```

Open Source Used In ise-tools 1.4
"url": "http://cscott.net"
],
{
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
",
{
"name": "Shinnosuke Watanabe",
"email": "snnskwtnb@gmail.com"
}
",
"dependencies": {},
"deprecated": false,
"description": "parse SPDX license expressions",
"devDependencies": {
"defence-cli": "^1.0.1",
"jison": "^0.4.15",
"replace-require-self": "^1.0.0",
"spdx-exceptions": "^1.0.4",
"spdx-license-ids": "^1.0.0",
"standard": "^8.0.0"
},
"files": [
"AUTHORS",
"index.js",
"parser.js"
],
"homepage": "https://github.com/kemitchell/spdx-expression-parse.js#readme",
"keywords": [
"SPDX",
"law",
"legal",
"license",
"metadata",
"package",
"package.json",
"standards"
],
"license": "(MIT AND CC-BY-3.0)",
"name": "spdx-expression-parse",
"optionalDependencies": {},
"peerDependencies": {},
"repository": {
"type": "git",
"url": "git+https://github.com/kemitchell/spdx-expression-parse.js.git"
},
"scripts": {
"lint": "standard",
"prepublish": "node generate-parser.js > parser.js",
"pretest": "npm run prepublish",
"test": "defence -i javascript README.md | replace-require-self | node",
"version": "1.0.4"
}

/* parser generated by jison 0.4.17 */
/*
Returns a Parser object of the following structure:

Parser: {
  yy: {}
}

Parser.prototype: {
  yy: {},
  trace: function(),
  symbols_: {associative list: name ==> number},
  terminals_: {associative list: number ==> name},
  productions_: [...],
  performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),
  table: [...],
  defaultActions: {...},
  parseError: function(str, hash),
  parse: function(input),
}

lexer: {
  EOF: 1,
  parseError: function(str, hash),
  setInput: function(input),
  input: function(),
  unput: function(str),
  more: function(),
  less: function(n),
  pastInput: function(),
  upcomingInput: function(),
  showPosition: function(),
  test_match: function(regex_match_array, rule_index),
  next: function(),
  lex: function(),
  begin: function(condition),
  popState: function(),
  _currentState: function(),
  topState: function(),
  pushState: function(condition),
  options: {

ranges: boolean  (optional: true ==> token location info will include a .range[] member)
flex: boolean   (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to
find the longest match)
backtrack_lexer: boolean  (optional: true ==> lexer regexes are tested in order and for each matching regex
the action code is invoked; the lexer terminates the scan when a token is returned by the action code)

performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),
rules: [...],
conditions: {associative list: name ==> set},
}
}

token location info (@$, _$, etc.): {
first_line: n,
last_line: n,
first_column: n,
last_column: n,
range: [start_number, end_number]       (where the numbers are indexes into the input string, regular zero-based)
}

the parseError function receives a 'hash' object with these members for lexer and parser errors: {
text:        (matched text)
token:       (the produced terminal token, if any)
line:        (yylineno)
}
while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {
loc:         (yylloc)
expected:    (string describing the set of expected tokens)
recoverable: (boolean: TRUE when the parser has a error recovery rule available for this particular error)
}
*/

var spdxparse = (function(){
var o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},$V0=[1,5],$V1=[1,6],$V2=[1,7],$V3=[1,4],$V4=[1,9],$V5=[1,10],$V6=[5,14,15,17],$V7=[5,12,14,15,17];
var parser = {trace: function trace() { },
yy: {},
symbols_: {
symbols_: {
terminals_: {
productions_: [0,3,2],[6,1],[6,2],[6,1],[6,3],[4,1],[4,3],[4,3],[4,3],[4,3]],
performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /*
lstack */) {
/* this == yyval */

var $0 = $$.length - 1;
switch (yystate) {
case 1:
return this.$ = $$[$0-1]
break;
case 2: case 4: case 5:
this.$ = {license: yytext}
break;
case 3:
this.$ = {license: $$[$0-1], plus: true}
break;
case 6:
this.$ = $$[$0]
break;
case 7:
this.$ = {exception: $$[$0]}
this.$.license = $$[$0-2].license
if ($$[$0-2].hasOwnProperty('plus')) {
    this.$.plus = $$[$0-2].plus
}
break;
case 8:
this.$ = {conjunction: 'and', left: $$[$0-2], right: $$[$0]}
break;
case 9:
this.$ = {conjunction: 'or', left: $$[$0-2], right: $$[$0]}
break;
case 10:
this.$ = $$[$0-1]
break;
}
},
table:
[[3:1:4:2:6:3:7:$V0\text{9}:\text{SV1}10:$$V2,16:$$V3],[1:3]],[5:[1:8],14:$$V4,15:$$V5],\text{o($SV6[2,6],[12:11])},[4:12:6:3:7:$$V0\text{9}:$$SV110:$$SV2,16:$$SV3],\text{o($SV7[2,2],[8:13])},\text{o($SV7[2,4]),[11:[1,14]],[1:[2,1]],[4:15:6:3:7:$V0\text{9}:$$SV110:$$SV2,16:$$SV3],[4:16:6:3:7:$V0\text{9}:$$SV110:$$SV2,16:$$SV3],[13:[1,17]],[14:$$V4,15:$$V5,17:[1,18]),\text{o($SV7[2,3],[9:[1,19]],[o($SV6[2,8],[5,15,17],[2,9],[14:$$SV4]),\text{o($SV6[2,7]),\text{o($SV6[2,10]),\text{o($SV7[2,5])]},
defaultActions: [8:[2,1]],
parseError: function parseError(str, hash) {
    if (hash.recoverable) {
        this.trace(str);
    } else {
        function _parseError (msg, hash) {
            this.message = msg;
            this.hash = hash;
        }
    }
}
throw new _parseError(str, hash);
}
]
parse: function parse(input) {
    var self = this, stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = '', yylineno = 0, 
    yyleng = 0, recovering = 0, TERROR = 2, EOF = 1;
    var args = lstack.slice.call(arguments, 1);
    var lexer = Object.create(this.lexer);
    var sharedState = { yy: {} };
    for (var k in this.yy) {
        if (Object.prototype.hasOwnProperty.call(this.yy, k)) {
            sharedState.yy[k] = this.yy[k];
        }
    }
    lexer.setInput(input, sharedState.yy);
    sharedState.yy.lexer = lexer;
    sharedState.yy.parser = this;
    if (typeof lexer.yylloc == 'undefined') {
        lexer.yylloc = {};
    }
    var yyloc = lexer.yylloc;
    lstack.push(yyloc);
    var ranges = lexer.options && lexer.options.ranges;
    if (typeof sharedState.yy.parseError === 'function') {
        this.parseError = sharedState.yy.parseError;
    } else {
        this.parseError = Object.getPrototypeOf(this).parseError;
    }
    function popStack(n) {
        stack.length = stack.length - 2 * n;
        vstack.length = vstack.length - n;
        lstack.length = lstack.length - n;
    }

    _token_stack:
    var lex = function () {
        var token;
        token = lexer.lex() || EOF;
        if (typeof token !== 'number') {
            token = self.symbols_[token] || token;
        }
        return token;
    };
    var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;
    while (true) {
        state = stack[stack.length - 1];
        ...
if (this.defaultActions[state]) {
    action = this.defaultActions[state];
} else {
    if (symbol === null || typeof symbol == 'undefined') {
        symbol = lex();
    }
    action = table[state] && table[state][symbol];
}

if (typeof action === 'undefined' || !action.length || !action[0]) {
    var errStr = "";
    expected = [];
    for (p in table[state]) {
        expected.push('"' + this.terminals_[p] + """);
    }
    if (lexer.showPosition) {
        errStr = 'Parse error on line ' + (yylineno + 1) + ':
        Expecting ' + expected.join(', ') + ', got "' + (this.terminals_[symbol] || symbol) + ""';
    } else {
        errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : "" + (this.terminals_[symbol] || symbol) + "");
    }
    this.parseError(errStr, {
        text: lexer.match,
        token: this.terminals_[symbol] || symbol,
        line: lexer.yylineno,
        loc: yyloc,
        expected: expected
    });
}

if (action[0] instanceof Array && action.length > 1) {
    throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' + symbol);
}

switch (action[0]) {
    case 1:
        stack.push(symbol);
        vstack.push(lexer.yytext);
        lstack.push(lexer.yylloc);
        stack.push(action[1]);
        symbol = null;
        if (!preErrorSymbol) {
            yyleng = lexer.yyleng;
            yytext = lexer.yytext;
            yylineno = lexer.yylineno;
            yylloc = lexer.yylloc;
            if (recovering > 0) {
                recovering--;
            }
```javascript
} else {
    symbol = preErrorSymbol;
    preErrorSymbol = null;
}
break;

// Case 2
len = this.productions_[action[1]][1];
yyval.$ = vstack[vstack.length - len];
yyval._$ = {
    first_line: lstack[lstack.length - (len || 1)].first_line,
    last_line: lstack[lstack.length - 1].last_line,
    first_column: lstack[lstack.length - (len || 1)].first_column,
    last_column: lstack[lstack.length - 1].last_column
};
if (ranges) {
    yyval._$.range = [
        lstack[lstack.length - (len || 1)].range[0],
        lstack[lstack.length - 1].range[1]
    ];
}
r = this.performAction.apply(yyval, [
    yytext,
    yyleng,
    yylineno,
    sharedState.yy,
    action[1],
    vstack,
    lstack
].concat(args));
if (typeof r !== 'undefined') {
    return r;
}
if (len) {
    stack = stack.slice(0, -1 * len * 2);
    vstack = vstack.slice(0, -1 * len);
    lstack = lstack.slice(0, -1 * len);
}
stack.push(this.productions_[action[1]][0]);
vstack.push(yyval.$);
lstack.push(yyval._$);
newState = table[stack[stack.length - 2]][stack[stack.length - 1]];
stack.push(newState);
break;
// Case 3
return true;
}
```
return true;

/* generated by jison-lex 0.3.4 */
var lexer = (function(){
var lexer = {

EOF: 1, 

parseError: function parseError(str, hash) {
    if (this.yy.parser) {
        this.yy.parser.parseError(str, hash);
    } else {
        throw new Error(str);
    }
},

// resets the lexer, sets new input
setInput: function (input, yy) {
    this.yy = yy || this.yy || {};
    this._input = input;
    this._more = this._backtrack = this.done = false;
    this.yylineno = this.yyleng = 0;
    this.yytext = this.matched = this.match = "";
    this.conditionStack = ['INITIAL'];
    this.yylloc = {
        first_line: 1,
        first_column: 0,
        last_line: 1,
        last_column: 0
    };
    if (this.options.ranges) {
        this.yylloc.range = [0, 0];
    }
    this.offset = 0;
    return this;
},

// consumes and returns one char from the input
input: function () {
    var ch = this._input[0];
    this.yytext += ch;
    this.yyleng++;
    this.match += ch;
    this.matched += ch;
    var lines = ch.match(/(?:\r\n?|\n).*/g);
    if (lines) {
        this.yylineno++;
    } else {
        this.yylineno = this.yylineno + 1;
    }
    this._input = this._input.slice(1);
    return ch;
}};

// resets the lexer, sets new input
setInput: function (input, yy) {
    this.yy = yy || this.yy || {};
    this._input = input;
    this._more = this._backtrack = this.done = false;
    this.yylineno = this.yyleng = 0;
    this.yytext = this.matched = this.match = "";
    this.conditionStack = ['INITIAL'];
    this.yylloc = {
        first_line: 1,
        first_column: 0,
        last_line: 1,
        last_column: 0
    };
    if (this.options.ranges) {
        this.yylloc.range = [0, 0];
    }
    this.offset = 0;
    return this;
},

// consumes and returns one char from the input
input: function () {
    var ch = this._input[0];
    this.yytext += ch;
    this.yyleng++;
    this.match += ch;
    this.matched += ch;
    var lines = ch.match(/(?:\r\n?|\n).*/g);
    if (lines) {
        this.yylineno++;
    } else {
        this.yylineno = this.yylineno + 1;
    }
    this._input = this._input.slice(1);
    return ch;
};
this.yylloc.last_line++;
} else {
    this.yylloc.last_column++;
}
if (this.options.ranges) {
    this.yylloc.range[1]++;
}
this._input = this._input.slice(1);
return ch;
}.

// unshifts one char (or a string) into the input
unput:function (ch) {
    var len = ch.length;
    var lines = ch.split(/(?:\r\n?|\n)/g);

    this._input = ch + this._input;
this.yytext = this.yytext.substr(0, this.yytext.length - len);
//this.yyleng -= len;
this.offset -= len;
var oldLines = this.match.split(/(?:\r\n?|\n)/g);
this.match = this.match.substr(0, this.match.length - 1);
this.matched = this.matched.substr(0, this.matched.length - 1);

if (lines.length - 1) {
    this.yylineno -= lines.length - 1;
}
var r = this.yylloc.range;

this.yylloc = {
    first_line: this.yylloc.first_line,
    last_line: this.yylineno + 1,
    first_column: this.yylloc.first_column,
    last_column: lines ?
        (lines.length === oldLines.length ? this.yylloc.first_column : 0)
        + oldLines[oldLines.length - lines.length].length - lines[0].length :
        this.yylloc.first_column - len
};

if (this.options.ranges) {
    this.yylloc.range = [r[0], r[0] + this.yyleng - len];
}
this.yyleng = this.yytext.length;
return this;
}.

// When called from action, caches matched text and appends it on next action
more:function () {
    this._more = true;
    return this;
},

// When called from action, signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested instead.
reject:function () {
    if (this.options.backtrack_lexer) {
        this._backtrack = true;
    } else {
        return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\n' + this.showPosition(), {
            text: "",
            token: null,
            line: this.yylineno
        });
    }
    return this;
},

// retain first n characters of the match
less:function (n) {
    this.unput(this.match.slice(n));
},

// displays already matched input, i.e. for error messages
pastInput:function () {
    var past = this.matched.substr(0, this.matched.length - this.match.length);
    return (past.length > 20 ? '...':'') + past.substr(-20).replace(/
/g, "");
},

// displays upcoming input, i.e. for error messages
upcomingInput:function () {
    var next = this.match;
    if (next.length < 20) {
        next += this._input.substr(0, 20-next.length);
    }
    return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/
/g, "");
},

// displays the character position where the lexing error occurred, i.e. for error messages
showPosition:function () {
    var pre = this.pastInput();
    var c = new Array(pre.length + 1).join("-");
    return pre + this.upcomingInput() + "\n" + c + "\n";
},
// test the lexed token: return FALSE when not a match, otherwise return token

```javascript
  test_match: function (match, indexed_rule) {
    var token,
        lines,
        backup;

    if (this.options.backtrack_lexer) {
      // save context
      backup = {
        yylineno: this.yylineno,
        yylloc: {
          first_line: this.yylloc.first_line,
          last_line: this.last_line,
          first_column: this.yylloc.first_column,
          last_column: this.yylloc.last_column
        },
        yytext: this.yytext,
        match: this.match,
        matches: this.matches,
        matched: this.matched,
        yyleng: this.yyleng,
        offset: this.offset,
        _more: this._more,
        _input: this._input,
        yy: this.yy,
        conditionStack: this.conditionStack.slice(0),
        done: this.done
      };
      if (this.options.ranges) {
        backup.yylloc.range = this.yylloc.range.slice(0);
      }
    }

    lines = match[0].match(/(?:\r\n?|\n).*/g);
    if (lines) {
      this.yylineno += lines.length;
    }

    this.yylloc = {
      first_line: this.yylloc.first_line,
      last_line: this.yylineno + 1,
      first_column: this.yylloc.first_column,
      last_column: lines ?
        lines[lines.length - 1].length - lines[lines.length - 1].match(/\r?\n\?/)[0].length :
        this.yylloc.last_column + match[0].length
    );
    this.yytext += match[0];
    this.match += match[0];
  }
```
this.matches = match;
this.yyleng = this.yytext.length;
if (this.options.ranges) {
    this.yylloc.range = [this.offset, this.offset += this.yyleng];
}
this._more = false;
this._backtrack = false;
this._input = this._input.slice(match[0].length);
this.matched += match[0];
token = this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);
if (this.done & this._input) {
    this.done = false;
}
if (token) {
    return token;
} else if (this._backtrack) {
    // recover context
    for (var k in backup) {
        this[k] = backup[k];
    }
    return false; // rule action called reject() implying the next rule should be tested instead.
}
return false;

// return next match in input
next: function () {
    if (this.done) {
        return this.EOF;
    }
    if (!this._input) {
        this.done = true;
    }
    var token,
        match,
        tempMatch,
        index;
    if (!this._more) {
        this.yytext = "";
        this.match = "";
    }
    var rules = this._currentRules();
    for (var i = 0; i < rules.length; i++) {
        tempMatch = this._input.match(this.rules[rules[i]]);
        if (tempMatch & (match || tempMatch[0].length > match[0].length)) {
            match = tempMatch;
index = i;
if (this.options.backtrack_lexer) {
    token = this.test_match(tempMatch, rules[i]);
    if (token !== false) {
        return token;
    } else if (this._backtrack) {
        match = false;
        continue; // rule action called reject() implying a rule MISMATCH.
    } else {
        // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)
        return false;
    }
} else if (!this.options.flex) {
    break;
}
}
}
if (match) {
    token = this.test_match(match, rules[index]);
    if (token !== false) {
        return token;
    } else if (this._input === "") {
        return this.EOF;
    } else {
        return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.' + 
            this.showPosition(), {
                text: "",
                token: null,
                line: this.yylineno
            });
    }
},

// return next match that has a token
lex:function lex() {
    var r = this.next();
    if (r) {
        return r;
    } else {
        return this.lex();
    },
},

// activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)
begin:function begin(condition) {
    this.conditionStack.push(condition);
},

// pop the previously active lexer condition state off the condition stack
popState:function popState() {
    var n = this.conditionStack.length - 1;
    if (n > 0) {
        return this.conditionStack.pop();
    } else {
        return this.conditionStack[0];
    }
},

// produce the lexer rule set which is active for the currently active lexer condition state
_currentRules:function _currentRules() {
    if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {
        return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;
    } else {
        return this.conditions["INITIAL"].rules;
    }
},

// return the currently active lexer condition state; when an index argument is provided it produces the N-th previous
// condition state, if available
topState:function topState(n) {
    n = this.conditionStack.length - 1 - Math.abs(n || 0);
    if (n >= 0) {
        return this.conditionStack[n];
    } else {
        return "INITIAL";
    }
},

// alias for begin(condition)
pushState:function pushState(condition) {
    this.begin(condition);
},

// return the number of states currently on the stack
stateStackSize:function stateStackSize() {
    return this.conditionStack.length;
},

options: { },
performAction: function anonymous(yy,yy_$avoiding_name_collisions,YY_START) {
    var YYSTATE=YY_START;
    switch(yy_$avoiding_name_collisions) {
        case 0:return 5
break;
case 1:/* skip whitespace */
    break;
case 2:return 8
    break;
case 3:return 16
    break;
case 4:return 17
    break;
case 5:return 11
    break;
case 6:return 10
    break;
case 7:return 9
    break;
case 8:return 14
    break;
case 9:return 15
    break;
case 10:return 12
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case 336: return 7
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case 337:return 7
break;
case 338:return 7
break;
case 339:return 7
break;
case 340:return 7
break;
case 341:return 7
break;
case 342:return 7
break;
case 343:return 7
break;
case 344:return 7
break;
case 345:return 7
break;
case 346:return 7
break;
case 347:return 7
break;
case 348:return 7
break;
case 349:return 7
break;
case 350:return 7
break;
case 351:return 7
break;
case 352:return 7
break;
case 353:return 7
break;
case 354:return 7
break;
case 355:return 7
break;
case 356:return 7
break;
case 357:return 7
break;
case 358:return 7
break;
case 359:return 7
break;
case 360:return 7
break;
case 361: return 7
break;
case 362: return 7
break;
case 363: return 7
break;
case 364: return 7
break;
}
}

rules: /[\$]/,/[\s+]/,/[\?]/,/[\@]/,/[\%]/,/[\(]/,/[\)/,/[\{]/,/[\}/,/[\:]/,/[\/],/[\?]/,/[\@]/,/[\%/],/[\(]/,/[\)]/,/[\/,]
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'license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
""UNLICENSED", or ' +
""SEE LICENSE IN <filename>""
);

var fileReferenceRE = /\^SEE LICENSE IN (.+)$/;

function startsWith(prefix, string) {
    return string.slice(0, prefix.length) === prefix;
}

function usesLicenseRef(ast) {
    if (ast.hasOwnProperty('license')) {
        var license = ast.license;
        return (startsWith('LicenseRef', license) ||
                startsWith('DocumentRef', license)
        );
    } else {
        return (usesLicenseRef(ast.left) ||
                usesLicenseRef(ast.right)
        );
    }
}

module.exports = function(argument) {
    var ast;

    try {
        ast = parse(argument);
    } catch (e) {
        var match
        if (argument === 'UNLICENSED' ||
            argument === 'UNLICENCED') {
            return {
                validForOldPackages: true,
                validForNewPackages: true,
                unlicensed: true
            }; 
        } else if (match = fileReferenceRE.exec(argument)) {
            return {
                validForOldPackages: true,
                validForNewPackages: true,
                inFile: match[1]
            }
        }
    }

...
if (usesLicenseRef(ast)) {
  return {
    validForNewPackages: false,
    validForOldPackages: false,
    spdx: true,
    warnings: [genericWarning]
  };
} else {
  var corrected = correct(argument);
  if (corrected) {
    result.warnings.push(
      'license is similar to the valid expression "' + corrected + '"'
    );
  }
  return result;
}

if (usesLicenseRef(ast)) {
  return {
    validForNewPackages: false,
    validForOldPackages: false,
    spdx: true,
    warnings: [genericWarning]
  };
} else {
  return {
    validForNewPackages: true,
    validForOldPackages: true,
    spdx: true
  };
}
"_requiredBy": [  
"/",  
"/init-package-json",  
"/normalize-package-data"
],
"_shasum": "2804babe712ad3379459acfbc24746ab2c303fbc",
"_shrinkwrap": null,
"_spec": "validate-npm-package-license@*",
"_where": "/Users/zkat/Documents/code/npm",
"author": {  
"name": "Kyle E. Mitchell",
"email": "kyle@kemitchell.com",
"url": "https://kemitchell.com"
},
"bin": null,
"bugs": {  
"url": "https://github.com/kemitchell/validate-npm-package-license.js/issues"
},
"bundleDependencies": false,
"dependencies": {  
"spdx-correct": "~1.0.0",
"spdx-expression-parse": "~1.0.0"
},
"deprecations": false,
"description": "Give me a string and I'll tell you if it's a valid npm package license string",
"devDependencies": {  
"defence-cli": "^1.0.1",
"replace-require-self": "^1.0.0"
},
"homepage": "https://github.com/kemitchell/validate-npm-package-license.js#readme",
"keywords": [  
"license",
"npm",
"package",
"validation"
],
"license": "Apache-2.0",
"name": "validate-npm-package-license",
"optionalDependencies": {},
"peerDependencies": {},
"repository": {  
"type": "git",
"url": "git+https://github.com/kemitchell/validate-npm-package-license.js.git"
},
"scripts": {  
"test": "defence README.md | replace-require-self | node"
}
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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```
var fs = require('fs')
var path = require('path')
var getUid = require('uid-number')
var chain = require('slide').chain
var log = require('npmlog')
var npm = require('../npm.js')
var fileCompletion = require('../utils/completion/file-completion.js')

function checkFilesPermission (root, fmask, dmask, cb) {
  if (process.platform === 'win32') return cb(null, true)
  getUid(npm.config.get('user'), npm.config.get('group'), function (e, uid, gid) {
    var tracker = log.newItem('checkFilePermissions', 1)
    if (e) {
      tracker.finish()
      tracker.warn('checkFilePermissions', 'Error looking up user and group:', e)
      return cb(e)
    }
    tracker.info('checkFilePermissions', 'Building file list of ' + root)
    fileCompletion(root, '.', Infinity, function (e, files) {
      if (e) {
        tracker.warn('checkFilePermissions', 'Error building file list:', e)
      }
    })
  })
}
tracker.finish()
    return cb(e)
}

tracker.addWork(files.length)
tracker.completeWork(1)

chain(files.map(andCheckFile), function (er) {
    tracker.finish()
    cb(null, !er)
})

function andCheckFile (f) {
    return [checkFile, f]
}

function checkFile (f, next) {
    var file = path.join(root, f)
    tracker.silly('checkFilePermissions', f)
    fs.lstat(file, function (e, stat) {
        tracker.completeWork(1)
        if (e) return next(e)
        if (!stat.isDirectory() && !stat.isFile()) return next()
        // 6 = fs.constants.R_OK | fs.constants.W_OK
        // constants aren't available on v4
        fs.access(file, stat.isFile() ? fmask : dmask, (err) => {
            if (err) {
                tracker.error('checkFilePermissions', `Missing permissions on ${file}`)
                return next(new Error('Missing permissions for ' + file))
            } else {
                return next()
            }
        })
    })
    next()
})

module.exports = checkFilesPermission

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1.17 Ubuntu 16.04.4 Server ISO 16.04.4

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Version 2, June 1991

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