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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>``.

It's also possible to only enable support for ``mp_list`` by including ``<boost/mp11/mpl_list.hpp>``, and for ``std::tuple`` by including ``<boost/mp11/mpl_tuple.hpp>``. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for ``std::tuple``, which conflicts with Mp11's one.

```
<!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>
```

```
<!-- Copyright 2018 Paul Fultz II
```

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-->
```

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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>
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</article>
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## 1.2 openssl 1.1.1t

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## 1.4 protobuf 21.12

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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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Vincent Choiniere <Choiniere.Vincent@hydro.qc.ca>  
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\* 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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\* 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.  
Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().  
Kacper Kowalik <xarthisius.kk@gmail.com>  
\* 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  
Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)  
Nipunn Koorapati <nipunn1313@gmail.com>  
\* Provide a type alias field ValueType on EnumTypeWrapper  
\* Match service argument names to abstract interface

## 1.5 libzip 1.9.2

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# 1.6 cpprest 2.10.18

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base64.cpp and base64.h

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\*\*\*\*\* SHA1 Library (sha1/sha1.hpp) \*\*\*\*\*

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\*\*\*\*\* MD5 Library (common/md5.hpp) \*\*\*\*\*

md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson ([webmaster@zaphoyd.com](mailto:webmaster@zaphoyd.com)) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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\*\*\*\*\* UTF8 Validation logic (utf8\_validation.hpp) \*\*\*\*\*

utf8\_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

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