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***** Base 64 Library (base64/base64.hpp) *****

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base64.cpp and base64.h

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

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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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1.4 protobuf 3.21.12

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* Small patch to fix Python CallMethod().

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* Small optimizations to Python serialization.

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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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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>

* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>

* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.
Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>

* 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
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1.7 openssl 3.0.11

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here a sample; alter
the names:

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

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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.

.Converting an existing MPL Sequence into an `mp_list`

```
using L = mpl::copy<Sequence, mpl::back_inserter<mp11::mp_list<>>>::type;
```

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<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>
```

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```
<?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>
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```

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