



# Open Source Used In Cisco Jabber for Mac 14.1

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### Contributing Author(s):

Dave Raggett <dsr@w3.org>

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## 1.6 kerberos 1.18

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```
cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
```

lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
```

lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.9 curl 7.80.0

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## 1.11 gstreamer 0.10.35.1

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## 1.13 open-ldap 2.4.57

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www.sourceforge.net/projects/tinyxml  
Original code by Lee Thomason (www.grinninglizard.com)

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```
/** @mainpage
```

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

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

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

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

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

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>. An intro to XML (that I really like) can be found at <http://skew.org/xml/tutorial/>.

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

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

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

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

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

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

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

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

## <h2> Tutorials. </h2>

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

- @subpage tutorial0

## <h2> Code Status. </h2>

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

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

## <h2> Related Projects </h2>

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

<ul>

<li> <b>TinyXPath</b> (<http://tinyxpath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>

<li> <b>TinyXML++</b> (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new

interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>

</ul>

## <h2> Features </h2>

### <h3> Using STL </h3>

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

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

Use the compile time #define:

TIXML\_USE\_STL

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

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

### <h3> UTF-8 </h3>

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

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

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

<ol>

<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working.</li>  
<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>  
</ol>

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

You may force TinyXML to Legacy Mode by using LoadFile( TIXML\_ENCODING\_LEGACY ) or LoadFile( filename, TIXML\_ENCODING\_LEGACY ). You may force it to use legacy mode all the time by setting TIXML\_DEFAULT\_ENCODING = TIXML\_ENCODING\_LEGACY. Likewise, you may force it to TIXML\_ENCODING\_UTF8 with the same technique.

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

UTF-8 is not a double byte format - but it is a standard encoding of Unicode! TinyXML does not use or directly support wchar, TCHAR, or Microsoft's \_UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

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

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

The <a href="http://skew.org/xml/tutorial/">Skew.org link</a> does a great job covering the encoding issue.

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



### <h3> Entities </h3>

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

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

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

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

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

Additionally, any character can be specified by its Unicode code point:

The syntax "&#xA0;" or "&#160;" are both to the non-breaking space character.

### <h3> Printing </h3>

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

- Print( FILE\* ). Output to a std-C stream, which includes all C files as well as stdout.
  - "Pretty prints", but you don't have control over printing options.
  - The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
  - used by Print() and SaveFile()
  
- operator<<. Output to a c++ stream.
  - Integrates with standart C++ iostreams.
  - Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.
  
- TiXmlPrinter. Output to a std::string or memory buffer.
  - API is less concise
  - Future printing options will be put here.
  - Printing may change slightly in future versions as it is refined and expanded.

### <h3> Streams </h3>

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

C style output:

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

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

C style input:

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

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

C++ style output:

- based on std::ostream
- operator<<

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

C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '\_' is a space, and look at "Hello\_\_\_world". HTML, and at least some XML parsers, will interpret this as "Hello\_world". They condense white space. Some XML parsers do not, and will leave it as "Hello\_\_\_world". (Remember to keep pretending the \_ is a space.) Others suggest that \_\_Hello\_\_\_world\_\_ should become Hello\_\_\_world.

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

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

<h3> Handles </h3>

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

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

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

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

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

<h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location

in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

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

## <h2> Using and Installing </h2>

To Compile and Run xmltest:

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

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

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

<ul>

<li>tinyxml: tinyxml library, non-STL </li>

<li>tinyxmlSTL: tinyxml library, STL </li>

<li>tinyXmlTest: test app, non-STL </li>

<li>tinyXmlTestSTL: test app, STL </li>

</ul>

### <h3>Makefile</h3>

At the top of the makefile you can set:

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

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

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

Add `tinyxml.cpp`, `tinyxml.h`, `tinyxmlerror.cpp`, `tinyxmlparser.cpp`, `tinystr.cpp`, and `tinystr.h` to your project or make file. That's it! It should compile on any reasonably

compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2> How TinyXML works. </h2>

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

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

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

```
@verbatim
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim
```

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

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

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

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

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

A comment. Will become a TiXmlComment object.

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

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

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

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

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

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

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

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

Etc.

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

```
@verbatim
TiXmlDocument  "demo.xml"
TiXmlDeclaration "version='1.0' "standalone=no"
TiXmlComment   " Our to do list data"
TiXmlElement   "ToDo"
TiXmlElement   "Item" Attributes: priority = 1
  TiXmlText   "Go to the "
  TiXmlElement "bold"
  TiXmlText   "Toy store!"
TiXmlElement   "Item" Attributes: priority=2
  TiXmlText   "Do bills"
@endverbatim
```

```
<h2> Documentation </h2>
```

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

```
<h2> License </h2>
```

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## <h2> References </h2>

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

The definitive spec: <a href="http://www.w3.org/TR/2004/REC-xml-20040204/">  
http://www.w3.org/TR/2004/REC-xml-20040204/</a>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by O'Reilly...the book that got the whole thing started.

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

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

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

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

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

[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton

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## 1.22 log4cplus 2.0.4

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## 1.23 cyrus-sasl 2.1.27

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* Rob Earhart
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* Rob Siemborski
```

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*/
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```

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```
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```

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```
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```

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

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## 1.26 json-cpp 1.8.4

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# 1.36 cpprest 2.9.0

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Found in path(s):

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* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
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* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
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 \* /opt/cola/permits/1209197947\_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
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* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-zip/include/gmock/gmock.h
* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-zip/include/opensource/gmock-1.7.0/include/gmock/internal/gmock-internal-utils.h
* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-zip/include/opensource/gmock-1.7.0/include/gmock/gmock-cardinalities.h
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Found in path(s):

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* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-zip/include/gtest/internal/gtest-param-util.h
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```

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```
$$ -*- mode: c++; -*-
$var n = 50 $$ Maximum length of type lists we want to support.
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//
// Author: wan@google.com (Zhanyong Wan)

// Type utilities needed for implementing typed and type-parameterized
// tests. This file is generated by a SCRIPT. DO NOT EDIT BY HAND!
//
// Currently we support at most $n types in a list, and at most $n
// type-parameterized tests in one type-parameterized test case.
// Please contact googletestframework@googlegroups.com if you need
// more.

#ifndef GTEST_INCLUDE_GTEST_INTERNAL_GTEST_TYPE_UTIL_H_
#define GTEST_INCLUDE_GTEST_INTERNAL_GTEST_TYPE_UTIL_H_

#include "gtest/internal/gtest-port.h"
```

```

// #ifdef __GNUC__ is too general here. It is possible to use gcc without using
// libstdc++ (which is where cxxabi.h comes from).
# if GTEST_HAS_CXXABI_H_
# include <cxxabi.h>
# elif defined(__HP_aCC)
# include <acxx_demangle.h>
# endif // GTEST_HASH_CXXABI_H_

namespace testing {
namespace internal {

// GetTypeName<T>() returns a human-readable name of type T.
// NB: This function is also used in Google Mock, so don't move it inside of
// the typed-test-only section below.
template <typename T>
std::string GetTypeName() {
# if GTEST_HAS_RTTI

    const char* const name = typeid(T).name();
# if GTEST_HAS_CXXABI_H_ || defined(__HP_aCC)
    int status = 0;
    // gcc's implementation of typeid(T).name() mangles the type name,
    // so we have to demangle it.
# if GTEST_HAS_CXXABI_H_
    using abi::__cxa_demangle;
# endif // GTEST_HAS_CXXABI_H_
    char* const readable_name = __cxa_demangle(name, 0, 0, &status);
    const std::string name_str(status == 0 ? readable_name : name);
    free(readable_name);
    return name_str;
# else
    return name;
# endif // GTEST_HAS_CXXABI_H_ || __HP_aCC

# else

    return "<type>";

# endif // GTEST_HAS_RTTI
}

#if GTEST_HAS_TYPED_TEST || GTEST_HAS_TYPED_TEST_P

// AssertTypeEq<T1, T2>::type is defined iff T1 and T2 are the same
// type. This can be used as a compile-time assertion to ensure that
// two types are equal.

template <typename T1, typename T2>

```

```

struct AssertTypeEq;

template <typename T>
struct AssertTypeEq<T, T> {
    typedef bool type;
};

// A unique type used as the default value for the arguments of class
// template Types. This allows us to simulate variadic templates
// (e.g. Types<int>, Type<int, double>, and etc), which C++ doesn't
// support directly.
struct None {};

// The following family of struct and struct templates are used to
// represent type lists. In particular, TypesN<T1, T2, ..., TN>
// represents a type list with N types (T1, T2, ..., and TN) in it.
// Except for Types0, every struct in the family has two member types:
// Head for the first type in the list, and Tail for the rest of the
// list.

// The empty type list.
struct Types0 {};

// Type lists of length 1, 2, 3, and so on.

template <typename T1>
struct Types1 {
    typedef T1 Head;
    typedef Types0 Tail;
};

$range i 2..n

$for i [[
$range j 1..i
$range k 2..i
template <$for j, [[typename T$j]]>
struct Types$i {
    typedef T1 Head;
    typedef Types$(i-1)<$for k, [[T$k]]> Tail;
};

]]

} // namespace internal

// We don't want to require the users to write TypesN<...> directly,

```

```

// as that would require them to count the length. Types<...> is much
// easier to write, but generates horrible messages when there is a
// compiler error, as gcc insists on printing out each template
// argument, even if it has the default value (this means Types<int>
// will appear as Types<int, None, None, ..., None> in the compiler
// errors).
//
// Our solution is to combine the best part of the two approaches: a
// user would write Types<T1, ..., TN>, and Google Test will translate
// that to TypesN<T1, ..., TN> internally to make error messages
// readable. The translation is done by the 'type' member of the
// Types template.

$range i 1..n
template <$for i, [[typename T$i = internal::None]]>
struct Types {
  typedef internal::Types$n<$for i, [[T$i]]> type;
};

template <>
struct Types<$for i, [[internal::None]]> {
  typedef internal::Types0 type;
};

$range i 1..n-1
$for i [[
$range j 1..i
$range k i+1..n
template <$for j, [[typename T$j]]>
struct Types<$for j, [[T$j]]$for k[[, internal::None]]> {
  typedef internal::Types$i<$for j, [[T$j]]> type;
};

]]

namespace internal {

# define GTEST_TEMPLATE_ template <typename T> class

// The template "selector" struct TemplateSel<Tmpl> is used to
// represent Tmpl, which must be a class template with one type
// parameter, as a type. TemplateSel<Tmpl>::Bind<T>::type is defined
// as the type Tmpl<T>. This allows us to actually instantiate the
// template "selected" by TemplateSel<Tmpl>.
//
// This trick is necessary for simulating typedef for class templates,
// which C++ doesn't support directly.
template <GTEST_TEMPLATE_ Tmpl>

```



```

struct TemplateSel {
    template <typename T>
    struct Bind {
        typedef Tmpl<T> type;
    };
};

# define GTEST_BIND_(TmplSel, T) \
    TmplSel::template Bind<T>::type

// A unique struct template used as the default value for the
// arguments of class template Templates. This allows us to simulate
// variadic templates (e.g. Templates<int>, Templates<int, double>,
// and etc), which C++ doesn't support directly.
template <typename T>
struct NoneT {};

// The following family of struct and struct templates are used to
// represent template lists. In particular, TemplatesN<T1, T2, ...,
// TN> represents a list of N templates (T1, T2, ..., and TN). Except
// for Templates0, every struct in the family has two member types:
// Head for the selector of the first template in the list, and Tail
// for the rest of the list.

// The empty template list.
struct Templates0 {};

// Template lists of length 1, 2, 3, and so on.

template <GTEST_TEMPLATE_ T1>
struct Templates1 {
    typedef TemplateSel<T1> Head;
    typedef Templates0 Tail;
};

$range i 2..n

$for i [[
$range j 1..i
$range k 2..i
template <$for j, [[GTEST_TEMPLATE_ T$j]]>
struct Templates$i {
    typedef TemplateSel<T1> Head;
    typedef Templates$(i-1)<$for k, [[T$k]]> Tail;
};

]]

```

```

// We don't want to require the users to write TemplatesN<...> directly,
// as that would require them to count the length. Templates<...> is much
// easier to write, but generates horrible messages when there is a
// compiler error, as gcc insists on printing out each template
// argument, even if it has the default value (this means Templates<list>
// will appear as Templates<list, NoneT, NoneT, ..., NoneT> in the compiler
// errors).
//
// Our solution is to combine the best part of the two approaches: a
// user would write Templates<T1, ..., TN>, and Google Test will translate
// that to TemplatesN<T1, ..., TN> internally to make error messages
// readable. The translation is done by the 'type' member of the
// Templates template.

```

```

$range i 1..n
template <$for i, [[GTEST_TEMPLATE_ T$i = NoneT]]>
struct Templates {
  typedef Templates$n<$for i, [[T$i]]> type;
};

```

```

template <>
struct Templates<$for i, [[NoneT]]> {
  typedef Templates0 type;
};

```

```

$range i 1..n-1
$for i [[
$range j 1..i
$range k i+1..n
template <$for j, [[GTEST_TEMPLATE_ T$j]]>
struct Templates<$for j, [[T$j]]$for k[[, NoneT]]> {
  typedef Templates$i<$for j, [[T$j]]> type;
};
]]

```

```

// The TypeList template makes it possible to use either a single type
// or a Types<...> list in TYPED_TEST_CASE() and
// INSTANTIATE_TYPED_TEST_CASE_P().

```

```

template <typename T>
struct TypeList {
  typedef Types1<T> type;
};

```

```

$range i 1..n

```

```

template <$for i, [[typename T$i]]>
struct TypeList<Types<$for i, [[T$i]]> > {
    typedef typename Types<$for i, [[T$i]]>::type type;
};

#endif // GTEST_HAS_TYPED_TEST || GTEST_HAS_TYPED_TEST_P

} // namespace internal
} // namespace testing

#endif // GTEST_INCLUDE_GTEST_INTERNAL_GTEST_TYPE_UTIL_H_

```

Found in path(s):

\* /opt/cola/permits/1209197947\_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
zip/include/gtest/internal/gtest-type-util.h.pump

\* /opt/cola/permits/1209197947\_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
zip/include/opensource/gtest-1.7.0/include/gtest/internal/gtest-type-util.h.pump

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\$\$ -\*- mode: c++; -\*-

\$\$ This is a Pump source file. Please use Pump to convert it to

\$\$ gmock-generated-nice-strict.h.

\$\$

\$var n = 10 \$\$ The maximum arity we support.

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//
// Author: wan@google.com (Zhanyong Wan)

// Implements class templates NiceMock, NaggyMock, and StrictMock.
//
// Given a mock class MockFoo that is created using Google Mock,
// NiceMock<MockFoo> is a subclass of MockFoo that allows
// uninteresting calls (i.e. calls to mock methods that have no
// EXPECT_CALL specs), NaggyMock<MockFoo> is a subclass of MockFoo
// that prints a warning when an uninteresting call occurs, and
// StrictMock<MockFoo> is a subclass of MockFoo that treats all
// uninteresting calls as errors.
//
// Currently a mock is naggy by default, so MockFoo and
// NaggyMock<MockFoo> behave like the same. However, we will soon
// switch the default behavior of mocks to be nice, as that in general
// leads to more maintainable tests. When that happens, MockFoo will
// stop behaving like NaggyMock<MockFoo> and start behaving like
// NiceMock<MockFoo>.
//
// NiceMock, NaggyMock, and StrictMock "inherit" the constructors of
// their respective base class, with up-to $n arguments. Therefore
// you can write NiceMock<MockFoo>(5, "a") to construct a nice mock
// where MockFoo has a constructor that accepts (int, const char*),
// for example.
//
// A known limitation is that NiceMock<MockFoo>, NaggyMock<MockFoo>,
// and StrictMock<MockFoo> only works for mock methods defined using
// the MOCK_METHOD* family of macros DIRECTLY in the MockFoo class.
// If a mock method is defined in a base class of MockFoo, the "nice"
// or "strict" modifier may not affect it, depending on the compiler.
// In particular, nesting NiceMock, NaggyMock, and StrictMock is NOT
// supported.
//
// Another known limitation is that the constructors of the base mock
// cannot have arguments passed by non-const reference, which are
// banned by the Google C++ style guide anyway.

#ifndef GMOCK_INCLUDE_GMOCK_GMOCK_GENERATED_NICE_STRICT_H_
#define GMOCK_INCLUDE_GMOCK_GMOCK_GENERATED_NICE_STRICT_H_

#include "gmock/gmock-spec-builders.h"
#include "gmock/internal/gmock-port.h"

```

```

namespace testing {

$range kind 0..2
$for kind [[

$var clazz=[[${if kind==0 [[NiceMock]]
    $elif kind==1 [[NaggyMock]]
    $else [[StrictMock]]]]

$var method=[[${if kind==0 [[AllowUninterestingCalls]]
    $elif kind==1 [[WarnUninterestingCalls]]
    $else [[FailUninterestingCalls]]]]

template <class MockClass>
class $clazz : public MockClass {
public:
// We don't factor out the constructor body to a common method, as
// we have to avoid a possible clash with members of MockClass.
$clazz() {
    ::testing::Mock::$method(
        internal::ImplicitCast_<MockClass*>(this));
}

// C++ doesn't (yet) allow inheritance of constructors, so we have
// to define it for each arity.
template <typename A1>
explicit $clazz(const A1& a1) : MockClass(a1) {
    ::testing::Mock::$method(
        internal::ImplicitCast_<MockClass*>(this));
}

$range i 2..n
$for i [[
$range j 1..i
template <${for j, [[typename A$j]]>
$clazz(${for j, [[const A$j& a$j]]) : MockClass(${for j, [[a$j]]) {
    ::testing::Mock::$method(
        internal::ImplicitCast_<MockClass*>(this));
}

]]
virtual ~$clazz() {
    ::testing::Mock::UnregisterCallReaction(
        internal::ImplicitCast_<MockClass*>(this));
}

private:

```

```

GTEST_DISALLOW_COPY_AND_ASSIGN_($clazz);
};

]]

// The following specializations catch some (relatively more common)
// user errors of nesting nice and strict mocks. They do NOT catch
// all possible errors.

// These specializations are declared but not defined, as NiceMock,
// NaggyMock, and StrictMock cannot be nested.

template <typename MockClass>
class NiceMock<NiceMock<MockClass> >;
template <typename MockClass>
class NiceMock<NaggyMock<MockClass> >;
template <typename MockClass>
class NiceMock<StrictMock<MockClass> >;

template <typename MockClass>
class NaggyMock<NiceMock<MockClass> >;
template <typename MockClass>
class NaggyMock<NaggyMock<MockClass> >;
template <typename MockClass>
class NaggyMock<StrictMock<MockClass> >;

template <typename MockClass>
class StrictMock<NiceMock<MockClass> >;
template <typename MockClass>
class StrictMock<NaggyMock<MockClass> >;
template <typename MockClass>
class StrictMock<StrictMock<MockClass> >;

} // namespace testing

#endif // GMOCK_INCLUDE_GMOCK_GMOCK_GENERATED_NICE_STRICT_H_

```

Found in path(s):

\* /opt/cola/permits/1209197947\_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
zip/include/gmock/gmock-generated-nice-strict.h.pump

\* /opt/cola/permits/1209197947\_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
zip/include/opensource/gmock-1.7.0/include/gmock/gmock-generated-nice-strict.h.pump

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\$\$ -\*- mode: c++; -\*-

\$var n = 50 \$\$ Maximum length of Values arguments we want to support.

\$var maxtuple = 10 \$\$ Maximum number of Combine arguments we want to support.

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```

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//
// Author: vladl@google.com (Vlad Losev)

// Type and function utilities for implementing parameterized tests.
// This file is generated by a SCRIPT. DO NOT EDIT BY HAND!
//
// Currently Google Test supports at most $n arguments in Values,
// and at most $maxtuple arguments in Combine. Please contact
// googletestframework@googlegroups.com if you need more.
// Please note that the number of arguments to Combine is limited
// by the maximum arity of the implementation of tr1::tuple which is
// currently set at $maxtuple.

#ifndef GTEST_INCLUDE_GTEST_INTERNAL_GTEST_PARAM_UTIL_GENERATED_H_
#define GTEST_INCLUDE_GTEST_INTERNAL_GTEST_PARAM_UTIL_GENERATED_H_

// scripts/fuse_gtest.py depends on gtest's own header being #included
// *unconditionally*. Therefore these #includes cannot be moved
// inside #if GTEST_HAS_PARAM_TEST.
#include "gtest/internal/gtest-param-util.h"
#include "gtest/internal/gtest-port.h"

```

```

#if GTEST_HAS_PARAM_TEST

namespace testing {

// Forward declarations of ValuesIn(), which is implemented in
// include/gtest/gtest-param-test.h.
template <typename ForwardIterator>
internal::ParamGenerator<
    typename ::testing::internal::IteratorTraits<ForwardIterator>::value_type>
ValuesIn(ForwardIterator begin, ForwardIterator end);

template <typename T, size_t N>
internal::ParamGenerator<T> ValuesIn(const T (&array)[N]);

template <class Container>
internal::ParamGenerator<typename Container::value_type> ValuesIn(
    const Container& container);

namespace internal {

// Used in the Values() function to provide polymorphic capabilities.
template <typename T1>
class ValueArray1 {
public:
    explicit ValueArray1(T1 v1) : v1_(v1) {}

    template <typename T>
    operator ParamGenerator<T>() const { return ValuesIn(&v1_, &v1_ + 1); }

private:
    // No implementation - assignment is unsupported.
    void operator=(const ValueArray1& other);

    const T1 v1_;
};

$range i 2..n
$for i [[
$range j 1..i

template <$for j, [[typename T$j]]>
class ValueArray$i {
public:
    ValueArray$i($for j, [[T$j v$j]]) : $for j, [[v$(j)_(v$j)]] {}

    template <typename T>
    operator ParamGenerator<T>() const {

```



```

    const T array[] = { $for j, [[static_cast<T>(v$(j)_)]] };
    return ValuesIn(array);
}

private:
// No implementation - assignment is unsupported.
void operator=(const ValueArray$i& other);

$for j [[

    const T$j v$(j)_;
]]

};

]]

# if GTEST_HAS_COMBINE
// INTERNAL IMPLEMENTATION - DO NOT USE IN USER CODE.
//
// Generates values from the Cartesian product of values produced
// by the argument generators.
//
$range i 2..maxtuple
$for i [[
$range j 1..i
$range k 2..i

template <$for j, [[typename T$j]]>
class CartesianProductGenerator$i
    : public ParamGeneratorInterface< ::std::tr1::tuple<$for j, [[T$j]]> > {
public:
    typedef ::std::tr1::tuple<$for j, [[T$j]]> ParamType;

    CartesianProductGenerator$i($for j, [[const ParamGenerator<T$j>& g$j]])
        : $for j, [[g$(j)_ (g$j)]] {}
    virtual ~CartesianProductGenerator$i() {}

    virtual ParamIteratorInterface<ParamType>* Begin() const {
        return new Iterator(this, $for j, [[g$(j)_ , g$(j)_ .begin()]);
    }
    virtual ParamIteratorInterface<ParamType>* End() const {
        return new Iterator(this, $for j, [[g$(j)_ , g$(j)_ .end()]);
    }
}

private:
class Iterator : public ParamIteratorInterface<ParamType> {
public:

```

```

Iterator(const ParamGeneratorInterface<ParamType>* base, $for j, [[

    const ParamGenerator<T$j>& g$j,
    const typename ParamGenerator<T$j>::iterator& current$(j)]]
    : base_(base),
$for j, [[

    begin$(j)_ (g$j.begin()), end$(j)_ (g$j.end()), current$(j)_ (current$j)
]] {
    ComputeCurrentValue();
}
virtual ~Iterator() {}

virtual const ParamGeneratorInterface<ParamType>* BaseGenerator() const {
    return base_;
}
// Advance should not be called on beyond-of-range iterators
// so no component iterators must be beyond end of range, either.
virtual void Advance() {
    assert(!AtEnd());
    ++current$(i)_;

$for k [[
    if (current$(i+2-k)_ == end$(i+2-k)_) {
        current$(i+2-k)_ = begin$(i+2-k)_;
        ++current$(i+2-k-1)_;
    }

]]
    ComputeCurrentValue();
}
virtual ParamIteratorInterface<ParamType>* Clone() const {
    return new Iterator(*this);
}
virtual const ParamType* Current() const { return &current_value_; }
virtual bool Equals(const ParamIteratorInterface<ParamType>& other) const {
    // Having the same base generator guarantees that the other
    // iterator is of the same type and we can downcast.
    GTEST_CHECK_(BaseGenerator() == other.BaseGenerator())
        << "The program attempted to compare iterators "
        << "from different generators." << std::endl;
    const Iterator* typed_other =
        CheckedDowncastToActualType<const Iterator>(&other);
    // We must report iterators equal if they both point beyond their
    // respective ranges. That can happen in a variety of fashions,
    // so we have to consult AtEnd().
    return (AtEnd() && typed_other->AtEnd()) ||
        ($for j && [[

```

```

        current$(j)_ == typed_other->current$(j)_
    ]]);
    }

private:
    Iterator(const Iterator& other)
        : base_(other.base_), $for j, [[

        begin$(j)_ (other.begin$(j)_),
        end$(j)_ (other.end$(j)_),
        current$(j)_ (other.current$(j)_
    ]] {
        ComputeCurrentValue();
    }

    void ComputeCurrentValue() {
        if (!AtEnd())
            current_value_ = ParamType($for j, [[*current$(j)_]);
    }
    bool AtEnd() const {
        // We must report iterator past the end of the range when either of the
        // component iterators has reached the end of its range.
        return
    $for j || [[

        current$(j)_ == end$(j)_
    ]];
    }

    // No implementation - assignment is unsupported.
    void operator=(const Iterator& other);

    const ParamGeneratorInterface<ParamType>* const base_;
    // begin[i]_ and end[i]_ define the i-th range that Iterator traverses.
    // current[i]_ is the actual traversing iterator.
    $for j [[

        const typename ParamGenerator<T$j>::iterator begin$(j)_;
        const typename ParamGenerator<T$j>::iterator end$(j)_;
        typename ParamGenerator<T$j>::iterator current$(j)_;
    ]]

    ParamType current_value_;
}; // class CartesianProductGenerator$i::Iterator

// No implementation - assignment is unsupported.
void operator=(const CartesianProductGenerator$i& other);

```

```

$for j [[
    const ParamGenerator<T$j> g$(j)_;

]]
}; // class CartesianProductGenerator$i

]]

// INTERNAL IMPLEMENTATION - DO NOT USE IN USER CODE.
//
// Helper classes providing Combine() with polymorphic features. They allow
// casting CartesianProductGeneratorN<T> to ParamGenerator<U> if T is
// convertible to U.
//
$range i 2..maxtuple
$for i [[
$range j 1..i

template <$for j, [[class Generator$j]]>
class CartesianProductHolder$i {
public:
CartesianProductHolder$i($for j, [[const Generator$j& g$j]])
    : $for j, [[g$(j)_$(g$j)]] {}
template <$for j, [[typename T$j]]>
operator ParamGenerator< ::std::tr1::tuple<$for j, [[T$j]]>>() const {
    return ParamGenerator< ::std::tr1::tuple<$for j, [[T$j]]>>(
        new CartesianProductGenerator$i<$for j, [[T$j]]>(
$for j,[[

            static_cast<ParamGenerator<T$j>>(g$(j)_
])));
}

private:
// No implementation - assignment is unsupported.
void operator=(const CartesianProductHolder$i& other);

$for j [[
    const Generator$j g$(j)_;

]]
}; // class CartesianProductHolder$i

]]

```

```
# endif // GTEST_HAS_COMBINE

} // namespace internal
} // namespace testing

#endif // GTEST_HAS_PARAM_TEST

#endif // GTEST_INCLUDE_GTEST_INTERNAL_GTEST_PARAM_UTIL_GENERATED_H_
```

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```
* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
zip/include/opensource/gtest-1.7.0/include/gtest/internal/gtest-param-util-generated.h.pump  
* /opt/cola/permits/1209197947_1686812628.275104/0/vendors-gtest-1-8-0-234-windows-  
zip/include/gtest/internal/gtest-param-util-generated.h.pump
```

## 1.37 jansson 1.2

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## 1.38 jansson 1.0

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## 1.39 json-cpp 0.6.0

## 1.40 sipcc 12.8.0

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# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Mocking Framework project. People  
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# here. Please keep the list sorted by first names.

Benoit Sigoure <tsuna@google.com>  
Bogdan Pilocla <boo@google.com>  
Chandler Carruth <chandlerc@google.com>  
Dave MacLachlan <dmaclach@gmail.com>  
David Anderson <danderson@google.com>  
Dean Sturtevant  
Gene Volovich <gv@cite.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kostya Serebryany <kcc@google.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotrk@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Wolfgang Klier <wklier@google.com>  
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# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean McAfee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>  
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## 1.42 safestring 1.2.0

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```
/*
```

```
SafeString from char* constructor
```

```
Examples of how to create SafeStrings from an existing pointer to a char[]
```

```
also see the SafeString_ConstructorAndDebugging, SafeStringFromArray and  
SafeStringFromCharPtrWithSize examples
```

```
by Matthew Ford
```

```
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```
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```
*/
```

```
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```
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/PlatformIO/safestringio-
```

zip/SafeString/examples/SafeString\_Tests/SafeStringFromCharPtr/SafeStringFromCharPtr.ino  
\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString\_Tests/SafeStringFromCharPtr/SafeStringFromCharPtr.ino  
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SafeString constructors and assignments

Examples of how to create SafeStrings and how to assign SafeStrings from other data types

also see the SafeStringFromArray, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize examples

by Matthew Ford

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Appending to SafeStrings using the += operator and concat()

Examples of how to append different data types to SafeStrings

Also has examples of using hasError() method

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString\_Tests/SafeStringAssignmentAndConcatOperator/SafeStringAssignmentAndConcatOperator.ino

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WString.cpp - SafeString library for Wiring & Arduino

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Prefixing to SafeStrings using the -= operator and prefix()

Examples of how to prefix different data types to SafeStrings

by Matthew Ford

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-

zip/SafeString/examples/SafeString\_Tests/SafeStringPrefixOperator/SafeStringPrefixOperator.ino

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SafeSting length(), trim()

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zip/SafeString/examples/SafeString\_Tests/SafeStringLengthTrim/SafeStringLengthTrim.ino

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SafeString removeFrom(), removeBefore(), remove(), removeLast(), keepLast()

Examples of SafeString remove

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SString indexOf() and lastIndexOf()

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

zip/SafeString/examples/SafeString\_Tests/SafeStringIndexOf/SafeStringIndexOf.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-

zip/SafeString/examples/SafeString\_Tests/SafeStringIndexOf/SafeStringIndexOf.ino

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Tokenizing SafeStrings and converting to numbers

Examples of how to use the nextToken() and toLong() and toDouble() to parse a CSV line

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeString_nextToken/SafeString_nextToken.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeString_nextToken/SafeString_nextToken.ino
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SafeString from char[] constructor

Examples of how to create SafeStrings from an existing char[]

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Fixed 9 Formatting of double/float/long/ing

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString\_Tests/SafeString\_fixedWidthFormat/SafeString\_fixedWidthFormat.ino

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SafeString substring()

Examples of SafeString substring

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString\_Tests/SafeStringSubstring/SafeStringSubstring.ino

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/\* SafeStringWithArraysOfCstrings.ino

Example of using SafeString for working with char[][xx]

by Matthew Ford

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download and install the SafeString library from Arduino library manager

or from [www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html](http://www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html)

\*/

Found in path(s):

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringWithArraysOfCstrings/SafeStringWithArraysOfCstrings.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeStringWithArraysOfCstrings/SafeStringWithArraysOfCstrings.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeStringWithArraysOfCstrings/SafeStringWithArraysOfCstrings.ino
No license file was found, but licenses were detected in source scan.
```

/\*

SafeString from char\* with specified size constructor

Examples of how to create SafeStrings from an existing pointer to a char[]

also see the SafeString\_ConstructorAndDebugging, SafeStringFromArray and SafeStringFromCharPtr examples

by Matthew Ford

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Modified from String Examples by Tom Igoe

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[www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html](http://www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html)

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringFromCharPtrWithSize/SafeStringFromCharPtrWithSize.ino
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```

/\*

SafeString Case changes

Examples of how to change the case of a SafeString

by Matthew Ford

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Found in path(s):

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringCaseChanges/SafeStringCaseChanges.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringCaseChanges/SafeStringCaseChanges.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringCaseChanges/SafeStringCaseChanges.ino
```

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/\*

SafeString startsWith(), startsWithIgnoreCase(), endsWithCharFrom() and endsWith()

by Matthew Ford

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[www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html](http://www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html)

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Found in path(s):

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringStartsWithEndsWith/SafeStringStartsWithEndsWith.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringStartsWithEndsWith/SafeStringStartsWithEndsWith.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringStartsWithEndsWith/SafeStringStartsWithEndsWith.ino
```

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/\*

Appending to SafeStrings using print()/println()

Examples of how to use the standard print()/println() to append and format different data types to SafeStrings

by Matthew Ford

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[www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html](http://www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html)

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringPrint/SafeStringPrint.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-
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master/examples/SafeString\_Tests/SafeStringPrint/SafeStringPrint.ino  
\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString\_Tests/SafeStringPrint/SafeStringPrint.ino  
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Test Errors for Assignment to SafeStrings using the = operator

by Matthew Ford

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString\_Tests/SafeStringEquAssignErrTests/SafeStringEquAssignErrTests.ino  
\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString\_Tests/SafeStringEquAssignErrTests/SafeStringEquAssignErrTests.ino  
\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString\_Tests/SafeStringEquAssignErrTests/SafeStringEquAssignErrTests.ino  
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/\*

SafeString to Number conversion

Examples of SafeString to Number conversions and comparing these to the results from String methods

by Matthew Ford

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString\_Tests/SafeStringToNum/SafeStringToNum.ino

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SafeString replace()

Examples of SafeString replace for chars and strings

by Matthew Ford

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString\_Tests/SafeStringReplace/SafeStringReplace.ino

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/\*

sfStream.ino

SafeStringStream Unit test

Example of using SafeStringStream

by Matthew Ford

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[https://www.forward.com.au/pfod/ArduinoProgramming/Serial\\_IO/index.html](https://www.forward.com.au/pfod/ArduinoProgramming/Serial_IO/index.html)

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringStream\_Tests/sfStream/sfStream.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeStringStream\_Tests/sfStream/sfStream.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeStringStream\_Tests/sfStream/sfStream.ino

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SafeString charAt() and setCharAt()

Examples of how to get and set characters of a SafeString



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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeStringCharacters/SafeStringCharacters.ino
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SafeString readUntil, non-blocking until delimiter found  
Example of how to use the non-blocking readUntil() method to parse a CSV line

by Matthew Ford  
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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeString_Tests/SafeString_readUntil/SafeString_readUntil.ino
```

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/\*

Blink

Turns an led on for one second, then off for one second, repeatedly.

Most Arduinos have an on-board led you can control. On the UNO, MEGA and ZERO

it is attached to digital pin 13, on MKR1000 on pin 6. led is set to the correct led pin independent of which board is used.

If you want to know what pin the on-board led is connected to on your Arduino model, check the Technical Specs of your board at:

<https://www.arduino.cc/en/Main/Products>

modified 8 May 2014

by Scott Fitzgerald

modified 2 Sep 2016

by Arturo Guadalupi

modified 8 Sep 2016

by Colby Newman

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<http://www.arduino.cc/en/Tutorial/Blink>

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-

zip/SafeString/examples/loopTimer/LoopTimer\_BlinkDelay/LoopTimer\_BlinkDelay.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/loopTimer/LoopTimer\_BlinkDelay/LoopTimer\_BlinkDelay.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

zip/SafeString/examples/loopTimer/LoopTimer\_BlinkDelay/LoopTimer\_BlinkDelay.ino

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Tokenizing SafeStrings and converting to numbers

Examples of how to use the token and toLong() and toDouble() to parse a CSV line

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zip/SafeString/examples/SafeString\_Tests/SafeString\_stoken/SafeString\_stoken.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeString\_Tests/SafeString\_stoken/SafeString\_stoken.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString\_Tests/SafeString\_stoken/SafeString\_stoken.ino

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/\*

SafeStringReader\_flushInput.ino

This example flushes any initial input and also starts flushing if "flush" is found in the text stream

by Matthew Ford

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zip/SafeString/examples/SafeStringReader\_flushInput/SafeStringReader\_flushInput.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

zip/SafeString/examples/SafeStringReader\_flushInput/SafeStringReader\_flushInput.ino

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/\*

OBD\_Processor.ino for SafeString V4.0.0+

Example of using SafeString to process Car OnBoardData

by Matthew Ford

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/OBD\_Processor/OBD\_Processor.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/OBD\_Processor/OBD\_Processor.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/OBD\_Processor/OBD\_Processor.ino

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SafeStringReader\_Assign.ino

This example = to SafeStringReader

by Matthew Ford

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\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/examples/SafeStringReader\_Assign/SafeStringReader\_Assign.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringReader\_Assign/SafeStringReader\_Assign.ino

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/\*

Comparing SafeStrings

Examples of how to compare SafeStrings using the comparison operators

by Matthew Ford

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zip/SafeString/examples/SafeString\_Tests/SafeStringComparisonOperators/SafeStringComparisonOperators.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-

zip/SafeString/examples/SafeString\_Tests/SafeStringComparisonOperators/SafeStringComparisonOperators.ino

\* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/examples/SafeString\_Tests/SafeStringComparisonOperators/SafeStringComparisonOperators.ino

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/\* SafeStringInClasses\_1.ino

Example of using SafeString for Class char[]s

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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/PlatformIO/safestringio-namespace-  
zip/SafeString/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino  
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino  
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringsInClasses_1/SafeStringsInClasses_1.ino  
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```

/\*

SafeStringReader\_GPS.ino

This example reads GPS data from a SafeStringStream continuously using a SafeStringReader

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or from [www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html](http://www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html)  
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* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/PlatformIO/safestringio-zip/SafeString/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino  
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino  
* /opt/cola/permits/1638688119_1686922131.046594/0/safestring-master-1-zip/SafeString-  
master/PlatformIO/safestringio-namespace-  
zip/SafeString/examples/SafeStringReader_GPS/SafeStringReader_GPS.ino  
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SafeString.h static memory SafeString library modified by  
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modified from  
WString.h - String library for Wiring & Arduino  
...mostly rewritten by Paul Stoffregen...  
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Copyright 2011, Paul Stoffregen, paul@pjrc.com

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- \* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-namespace-zip/SafeString/src/SafeString.h
- \* /opt/cola/permits/1638688119\_1686922131.046594/0/safestring-master-1-zip/SafeString-master/PlatformIO/safestringio-zip/SafeString/src/SafeString.h

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