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LineRate® v2.2.7



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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was

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mach\_override lib/asan/mach\_override

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the

Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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<one line to give the library's name and a brief idea of what it does.>

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## ***dialog***

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Copyright (C) 1995 Florian La Roche \*/ Who wants to help coding? I don't like doing this... \*/ "\nPre-Alpha version, be careful, read the doc!!!"

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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***ejs***

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## ***ejs 0.5.0***

EJS

Embedded JavaScript templates.

Installation

```
$ npm install ejs
```

Features

- Complies with the [Express](<http://expressjs.com>) view system
- Static caching of intermediate JavaScript
- Unbuffered code for conditionals etc `<% code %>`
- Escapes html by default with `<%= code %>`
- Unescaped buffering with `<%- code %>`
- Supports tag customization
- Filter support for designer-friendly templates
- Client-side support

Example

```
<% if (user) { %>
<h2><%= user.name %></h2>
<% } %>
```

Usage

```
ejs.compile(str, options);
=> Function
```

```
ejs.render(str, options);
=> str
```

Options

- `locals` Local variables object
- `cache` Compiled functions are cached, requires `filename`
- `filename` Used by `cache` to key caches
- `scope` Function execution context
- `debug` Output generated function body
- `open` Open tag, defaulting to "`<%`"
- `close` Closing tag, defaulting to "`%>`"

Custom tags



Custom tags can also be applied globally:

```
var ejs = require('ejs');
ejs.open = '{{';
ejs.close = '}}';
```

Which would make the following a valid template:

```
<h1>{{= title }}</h1>
```

## Filters

EJS conditionally supports the concept of "filters". A "filter chain" is a designer friendly api for manipulating data, without writing JavaScript.

Filters can be applied by supplying the `:_:` modifier, so for example if we wish to take the array ``[{ name: 'tj' }, { name: 'mape' }, { name: 'guillermo' } ]`` and output a list of names we can do this simply with filters:

Template:

```
<p><%= users | map:'name' | join %></p>
```

Output:

```
<p>Tj, Mape, Guillermo</p>
```

Render call:

```
ejs.render(str, {
  locals: {
    users: [
      { name: 'tj' },
      { name: 'mape' },
      { name: 'guillermo' }
    ]
  }
});
```

Or perhaps capitalize the first user's name for display:

```
<p><%= users | first | capitalize %></p>
```

## Filter list

Currently these filters are available:

- first
- last
- capitalize
- downcase
- upcase
- sort
- sort\_by:'prop'
- size
- length
- plus:n
- minus:n
- times:n
- divided\_by:n
- join:'val'
- truncate:n
- truncate\_words:n
- replace:pattern,substitution
- prepend:val
- append:val
- map:'prop'
- reverse
- get:'prop'

## Adding filters

To add a filter simply add a method to the `.filters`` object:

```
```js
ejs.filters.last = function(obj) {
  return obj[obj.length - 1];
};
```
```

## client-side support

include `./ejs.js`` or `./ejs.min.js`` and `require("ejs").compile(str)``.

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```

```
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## **formidable 1.0.6**

Formidable

Purpose

A node.js module for parsing form data, especially file uploads.

Current status

This module was developed for [Transloadit](<http://transloadit.com/>), a service focused on uploading and encoding images and videos. It has been battle-tested against hundreds of GB of file uploads from a big variety of clients and is considered production-ready.



## Features

- Fast (~500mb/sec), non-buffering multipart parser
- Automatically writing file uploads to disk
- Low memory footprint
- Graceful error handling
- Very high test coverage

## Changelog

### v1.0.5

- Support filename="" in multipart parts
- Explain unexpected end() errors in parser better

### v1.0.4

- Detect a good default tmp directory regardless of platform. (#88)

### v1.0.3

- Fix problems with utf8 characters (#84) / semicolons in filenames (#58)
- Small performance improvements
- New test suite and fixture system

### v1.0.2

- Exclude node\\_modules folder from git
- Implement new `aborted` event
- Fix files in example folder to work with recent node versions
- Make gently a devDependency

[See Commits](<https://github.com/felixge/node-formidable/compare/v1.0.1...v1.0.2>)

### v1.0.1

- Fix package.json to refer to proper main directory. (#68, Dean Landolt)

[See Commits](<https://github.com/felixge/node-formidable/compare/v1.0.0...v1.0.1>)

### v1.0.0

- Add support for multipart boundaries that are quoted strings. (Jeff Craig)

This marks the begin of the development on version 2.0 which will include several architectural improvements.

[See Commits](<https://github.com/felixge/node-formidable/compare/v0.9.11...v1.0.0>)

### v0.9.11

- Emit `progress` event when receiving data, regardless of parsing it. (Tim Koschützki)
- Use [W3C FileAPI Draft](<http://dev.w3.org/2006/webapi/FileAPI/>) properties for File class

Important:\*\* The old property names of the File class will be removed in a future release.

[See Commits](<https://github.com/felixge/node-formidable/compare/v0.9.10...v0.9.11>)

## Older releases

These releases were done before starting to maintain the above Changelog:

[v0.9.10](<https://github.com/felixge/node-formidable/compare/v0.9.9...v0.9.10>)

[v0.9.9](<https://github.com/felixge/node-formidable/compare/v0.9.8...v0.9.9>)

[v0.9.8](<https://github.com/felixge/node-formidable/compare/v0.9.7...v0.9.8>)

[v0.9.7](<https://github.com/felixge/node-formidable/compare/v0.9.6...v0.9.7>)

[v0.9.6](<https://github.com/felixge/node-formidable/compare/v0.9.5...v0.9.6>)

[v0.9.5](<https://github.com/felixge/node-formidable/compare/v0.9.4...v0.9.5>)

[v0.9.4](https://github.com/felixge/node-formidable/compare/v0.9.3...v0.9.4)  
[v0.9.3](https://github.com/felixge/node-formidable/compare/v0.9.2...v0.9.3)  
[v0.9.2](https://github.com/felixge/node-formidable/compare/v0.9.1...v0.9.2)  
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[v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)  
[v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)  
[v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)  
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[v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)  
[v0.1.0](https://github.com/felixge/node-formidable/commits/v0.1.0)

## Installation

Via [npm](http://github.com/isaacs/npm):

```
npm install formidable@latest
```

Manually:

```
git clone git://github.com/felixge/node-formidable.git formidable
vim my.js
var formidable = require('./formidable');
```

Note: Formidable requires [gently](http://github.com/felixge/node-gently) to run the unit tests, but you won't need it for just using the library.

## Example

Parse an incoming file upload.

```
var formidable = require('formidable'),
    http = require('http'),
    sys = require('sys');

http.createServer(function(req, res) {
  if (req.url == '/upload' && req.method.toLowerCase() == 'post') {
    parse a file upload
    var form = new formidable.IncomingForm();
    form.parse(req, function(err, fields, files) {
      res.writeHead(200, {'content-type': 'text/plain'});
      res.write('received upload:\n\n');
      res.end(sys.inspect({fields: fields, files: files}));
    });
    return;
  }
}
```

show a file upload form

```
res.writeHead(200, {'content-type': 'text/html'});
res.end(
  '<form action="/upload" enctype="multipart/form-data" method="post">'+
  '<input type="text" name="title"><br>'+
  '<input type="file" name="upload" multiple="multiple"><br>'+
  '<input type="submit" value="Upload">'+
  '</form>'
);
}).listen(80);
```

## API

formidable.IncomingForm

```
new formidable.IncomingForm()
```

Creates a new incoming form.

```
incomingForm.encoding = 'utf-8'
```

The encoding to use for incoming form fields.

```
incomingForm.uploadDir = process.env.TMP || '/tmp' || process.cwd()
```

The directory for placing file uploads in. You can later on move them using `fs.rename()`. The default directory is picked at module load time depending on the first existing directory from those listed above.

```
incomingForm.keepExtensions = false
```

If you want the files written to `incomingForm.uploadDir` to include the extensions of the original files, set this property to `true`.

```
incomingForm.type
```

Either 'multipart' or 'urlencoded' depending on the incoming request.

```
incomingForm.maxFieldsSize = 2 * 1024 * 1024
```

Limits the amount of memory a field (not file) can allocate in bytes. If this value is exceeded, an `error` event is emitted. The default size is 2MB.

```
incomingForm.bytesReceived
```

The amount of bytes received for this form so far.

```
incomingForm.bytesExpected
```

The expected number of bytes in this form.

```
incomingForm.parse(request, [cb])
```

Parses an incoming node.js `request` containing form data. If `cb` is provided, all fields and files are collected and passed to the callback:

```
incomingForm.parse(req, function(err, fields, files) {  
  ...  
});
```

```
incomingForm.onPart(part)
```

You may overwrite this method if you are interested in directly accessing the multipart stream. Doing so will disable any `field` / `file` events processing which would occur otherwise, making you fully responsible for handling the processing.

```
incomingForm.onPart = function(part) {  
  part.addListener('data', function() {  
    ...  
  });  
}
```

If you want to use formidable to only handle certain parts for you, you can do so:

```
incomingForm.onPart = function(part) {  
  if (!part.filename) {  
    let formidable handle all non-file parts  
    incomingForm.handlePart(part);  
  }  
}
```

Check the code in this method for further inspiration.

Event: 'progress' (bytesReceived, bytesExpected)

Emitted after each incoming chunk of data that has been parsed. Can be used to roll your own progress bar.

Event: 'field' (name, value)

Emitted whenever a field / value pair has been received.

Event: 'fileBegin' (name, file)

Emitted whenever a new file is detected in the upload stream. Use this even if you want to stream the file to somewhere else while buffering the upload on the file system.

Event: 'file' (name, file)

Emitted whenever a field / file pair has been received. `file` is an instance of `File`.

Event: 'error' (err)

Emitted when there is an error processing the incoming form. A request that experiences an error is automatically paused, you will have to manually call `request.resume()` if you want the request to continue firing `data` events.

Event: 'aborted'

Emitted when the request was aborted by the user. Right now this can be due to a 'timeout' or 'close' event on the socket. In the future there will be a separate 'timeout' event (needs a change in the node core).

Event: 'end' ()

Emitted when the entire request has been received, and all contained files have finished flushing to disk. This is a great place for you to send your response.

formidable.File

file.size = 0

The size of the uploaded file in bytes. If the file is still being uploaded (see `fileBegin` event), this property says how many bytes of the file have been written to disk yet.

file.path = null

The path this file is being written to. You can modify this in the `fileBegin` event in case you are unhappy with the way formidable generates a temporary path for your files.

file.name = null

The name this file had according to the uploading client.

file.type = null

The mime type of this file, according to the uploading client.

file.lastModifiedDate = null

A date object (or `null`) containing the time this file was last written to. Mostly here for compatibility with the [W3C File API Draft](http://dev.w3.org/2006/webapi/FileAPI/).

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Ports

[multipart-parser](http://github.com/FooBarWidget/multipart-parser): a C++ parser based on formidable

Credits

[Ryan Dahl](http://twitter.com/ryah) for his work on [http-parser](http://github.com/ry/http-parser) which heavily inspired multipart\_parser.js

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```
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```
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Version 3.1, 31 March 2009

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## ***gettext-0.18.3.1***

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;; Maintainer: Karl Landstrom <karl@karllandstrom.se>  
;; Version: 2.2.1  
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;; Keywords: languages, oop
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## **libexecinfo 1.1\_3**

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### I. About

This is a quick-n-dirty BSD licensed clone of backtrace facility found in the GNU libc, mainly intended for porting linuxish code to BSD platforms, however it can be used at any platform which has a gcc compiler.

More information about API can be found here:

[http://www.gnu.org/software/libc/manual/html\\_node/Backtraces.html](http://www.gnu.org/software/libc/manual/html_node/Backtraces.html)

### II. Known limitations

- Depth of stack trace is limited to 128 levels, which should be enough in most cases, the limit can be increased by editing `gen.py` and regenerating `stacktraverse.c`. The reason for that limitation stems from the fact that `__builtin_return_address()` function takes only constant as an argument, while `gcc(1)` has problems compiling giant `switch()` tables. For example to compile one with 1024 entries `gcc(1)` needs more than 1GB of memory (sic!);

- executable have to be linked using ``-Wl,--export-dynamic'` option,



in order for function names to be displayed properly.

### III. Author

Author of this junk is Maxim Sobolev <sobomax@FreeBSD.org>. Any feedback, patches or suggestions are greatly appreciated.

\$Id: README,v 1.2 2004/07/19 05:13:42 sobomax Exp \$

## ***libiconv-1.14\_1***

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## ***node\_redis c3ea30ebea7b9eddba3534fcd357e3ec04fd9683***

redis - a node.js redis client

=====

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use `hiredis`, do:

```
npm install hiredis redis
```

If `hiredis` is installed, `node\_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can happen between node and native code modules after a node upgrade.

Usage

Simple example, included as `examples/simple.js`:

```
``js
var redis = require("redis"),
    client = redis.createClient();

if you'd like to select database 3, instead of 0 (default), call
client.select(3, function() { /* ... */ });

client.on("error", function (err) {
  console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
  console.log(replies.length + " replies:");
  replies.forEach(function (reply, i) {
    console.log("  " + i + ": " + reply);
  });
});
client.quit();
});
``
```

This will display:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
Reply: OK
```

```
Reply: 0
```

```
Reply: 0
2 replies:
0: hashtest 1
1: hashtest 2
mjr:~/work/node_redis (master)$
```

## Performance

Here are typical results of `multi_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```
PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072
```

hireis parser:

```
PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node_redis` improves dramatically with pipelining, which happens automatically in most normal programs.

## Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an `args` Array plus optional `callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback` is optional:

```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
  reply is null when the key is missing
  console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)

The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as `client.GET()`.

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.

API

## Connection Events

``client`` will emit some events about the state of the connection to the Redis server.

"ready"

``client`` will emit ``ready`` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the ``ready`` event are queued, then replayed just before this event is emitted.

"connect"

``client`` will emit ``connect`` at the same time as it emits ``ready`` unless ``client.options.no_ready_check`` is set. If this options is set, ``connect`` will be emitted when the stream is connected, and then you are free to try to send commands.

"error"

``client`` will emit ``error`` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
throw e;
^
Error: ECONNREFUSED, Connection refused
at IOWatcher.callback (net:870:22)
at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

``client`` will also emit ``error`` if an exception is thrown inside of ``node_redis`` for whatever reason. It would be nice to distinguish these two cases.

"end"

``client`` will emit ``end`` when an established Redis server connection has closed.

"drain"

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

"idle"

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
redis.createClient(port, host, options)
```

Create a new client connection. ``port`` defaults to ``6379`` and ``host`` defaults to ``127.0.0.1``. If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed.

This may also be set to ``javascript``.

``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to every command on a client.

`socket_nodelay`: defaults to `true`. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to `false` can result in additional throughput at the cost of more latency. Most applications will want this set to `true`.

`no_ready_check`: defaults to `false`. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, `node_redis` has a "ready check" which sends the `INFO` command to the server. The response from the `INFO` command indicates whether the server is ready for more commands. When ready, `node_redis` emits a `ready` event. Setting `no_ready_check` to `true` will inhibit this check.

`enable_offline_queue`: defaults to `true`. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting `enable_offline_queue` to `false` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

```
```js
var redis = require("redis"),
    client = redis.createClient(null, null, {detect_buffers: true});

client.set("foo_rand000000000000", "OK");
```

This will return a JavaScript String

```
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString()); // Will print `OK`
});
```

This will return a Buffer since original key is specified as a Buffer

```
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
  console.log(reply.toString()); // Will print ``
});
client.end();
```
```

`createClient()` returns a `RedisClient` object that is named `client` in all of the examples here.

```
client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the `AUTH` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()` stashes `password` and will send it after each connection, including reconnections. `callback` is invoked only once, after the response to the very first `AUTH` command sent.

NOTE: Your call to `client.auth()` should not be inside the ready handler. If you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```
client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
```js
var redis = require("redis"),
    client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString());
});
client.end();
```
```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

Friendlier hash commands

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single String or an Array of Strings. When dealing with hash values, there are a couple of useful exceptions to this.

```
client.hgetall(hash)
```

The reply from an HGETALL command will be converted into a JavaScript Object by `node\_redis`. That way you can interact with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
  console.dir(obj);
});
```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

```
client.hmset(hash, obj, [callback])
```

Multiple values in a hash can be set by supplying an object:

```
client.HMSET(key2, {
  "0123456789": "abcdefghij", // NOTE: the key and value must both be strings
  "some manner of key": "a type of value"
});
```

The properties and values of this Object will be set as keys and values in the Redis hash.

```
client.hmset(hash, key1, val1, ... keyn, valn, [callback])
```

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");
```

## Publish / Subscribe

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```
```js
var redis = require("redis"),
    client1 = redis.createClient(), client2 = redis.createClient(),
    msg_count = 0;

client1.on("subscribe", function (channel, count) {
  client2.publish("a nice channel", "I am sending a message.");
  client2.publish("a nice channel", "I am sending a second message.");
  client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
  console.log("client1 channel " + channel + ": " + message);
  msg_count += 1;
  if (msg_count === 3) {
    client1.unsubscribe();
    client1.end();
    client2.end();
  }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
```
```

When a client issues a `SUBSCRIBE` or `PSUBSCRIBE`, that connection is put into "pub/sub" mode.

At that point, only commands that modify the subscription set are valid. When the subscription set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in pub/sub mode, just open another connection.

#### Pub / Sub Events

If a client has subscriptions active, it may emit these events:

"message" (channel, message)

Client will emit `message` for every message received that matches an active subscription. Listeners are passed the channel name as `channel` and the message Buffer as `message`.

"pmessage" (pattern, channel, message)

Client will emit `pmessage` for every message received that matches an active subscription pattern. Listeners are passed the original pattern used with `PSUBSCRIBE` as `pattern`, the sending channel name as `channel`, and the message Buffer as `message`.

"subscribe" (channel, count)

Client will emit `subscribe` in response to a `SUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`.

"psubscribe" (pattern, count)

Client will emit `psubscribe` in response to a `PSUBSCRIBE` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

"unsubscribe" (channel, count)

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left pub/sub mode and no more pub/sub events will be emitted.

"punsubscribe" (pattern, count)

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left pub/sub mode and no more pub/sub events will be emitted.

client.multi([commands])

`MULTI` commands are queued up until an `EXEC` is issued, and then all commands are run atomically by Redis. The interface in `node\_redis` is to return an individual `Multi` object by calling `client.multi()`.

```
```js
var redis = require("./index"),
    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
  client.sadd("bigset", "member " + set_size);
  set_size -= 1;
}
```

multi chain with an individual callback

```
client.multi()
  .scard("bigset")
  .smembers("bigset")
  .keys("*", function (err, replies) {
    NOTE: code in this callback is NOT atomic
    this only happens after the the .exec call finishes.
    client.mget(replies, redis.print);
  })
  .dbsize()
```



```
.exec(function (err, replies) {
  console.log("MULTI got " + replies.length + " replies");
  replies.forEach(function (reply, index) {
    console.log("Reply " + index + ": " + reply.toString());
  });
});
```

```

`client.multi()` is a constructor that returns a `Multi` object. `Multi` objects share all of the same command methods as `client` objects do. Commands are queued up inside the `Multi` object until `Multi.exec()` is invoked.

You can either chain together `MULTI` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```
```js
var redis = require("redis"),
    client = redis.createClient(), multi;

start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

drains multi queue and runs atomically
multi.exec(function (err, replies) {
  console.log(replies); // 101, 2
});

you can re-run the same transaction if you like
multi.exec(function (err, replies) {
  console.log(replies); // 102, 3
  client.quit();
});
```
```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```
```js
var redis = require("redis"),
    client = redis.createClient(), multi;

client.multi([
  ["mget", "multifoo", "multibar", redis.print],
  ["incr", "multifoo"],
  ["incr", "multibar"]
]).exec(function (err, replies) {
  console.log(replies);
});
```
```

## Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```
```js
var client = require("redis").createClient(),
```

```
util = require("util");
```

```
client.monitor(function (err, res) {  
  console.log("Entering monitoring mode.");  
});
```

```
client.on("monitor", function (time, args) {  
  console.log(time + ": " + util.inspect(args));  
});  
````
```

## Extras

Some other things you might like to know about.

```
client.server_info
```

After the ready probe completes, the results from the INFO command are saved in the `client.server_info`` object.

The `versions`` key contains an array of the elements of the version string for easy comparison.

```
> client.server_info.redis_version  
'2.3.0'  
> client.server_info.versions  
[ 2, 3, 0 ]
```

```
redis.print()
```

A handy callback function for displaying return values when testing. Example:

```
````js  
var redis = require("redis"),  
    client = redis.createClient();  
  
client.on("connect", function () {  
  client.set("foo_rand000000000000", "some fantastic value", redis.print);  
  client.get("foo_rand000000000000", redis.print);  
});  
````
```

This will print:

```
Reply: OK  
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
````js  
var redis = require("redis"),  
    client = redis.createClient();  
  
redis.debug_mode = true;  
  
client.on("connect", function () {  
  client.set("foo_rand000000000000", "some fantastic value");  
});  
````
```

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js  
send command: *3  
$3  
SET
```

```
$20
foo_rand000000000000
$20
some fantastic value
```

```
on_data: +OK
```

`send\_command` is data sent into Redis and `on\_data` is data received from Redis.

```
client.send_command(command_name, args, callback)
```

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send\_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

```
client.connected
```

Boolean tracking the state of the connection to the Redis server.

```
client.command_queue.length
```

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with `client.command\_queue` though unless you really know what you are doing.

```
client.offline_queue.length
```

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

```
client.retry_delay
```

Current delay in milliseconds before a connection retry will be attempted. This starts at `250`.

```
client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries. Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

### Commands with Optional and Keyword arguments

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the [\[redis.io/commands\]](http://redis.io/commands) documentation.

Example:

```
```js
var args = [ 'myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine' ];
client.zadd(args, function (err, response) {
  if (err) throw err;
  console.log('added '+response+' items.');
```

-Infinity and +Infinity also work

```
var args1 = [ 'myzset', '+inf', '-inf' ];
client.zrevrangebyscore(args1, function (err, response) {
  if (err) throw err;
  console.log('example1', response);
  write your code here
});
```

```
var max = 3, min = 1, offset = 1, count = 2;
var args2 = [ 'myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count ];
client.zrevrangebyscore(args2, function (err, response) {
  if (err) throw err;
  console.log('example2', response);
  write your code here
});
```

});  
...  
});

## TODO

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

## How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

## Contributors

Some people have have added features and fixed bugs in `node\_redis` other than me.

Ordered by date of first contribution.

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Thanks.

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1. [1]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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6. [7]Karl Berry <karl@owl.HQ.leaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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12. [13]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

13. [14]Sven Dietrich <sven\_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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16. [17]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
17. [18]John Hay <jhay@@icomtek.csir.co.za> IPv6 support and testing
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30. [33]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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32. [35]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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35. [38]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
36. [39]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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## ***pnpinfo***

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## ***python-2.7\_2,2***

### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-  
from compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes

1.3 thru 1.5.2 1.2 1995-1999 CNRI yes  
1.6 1.5.2 2000 CNRI no  
2.0 1.6 2000 BeOpen.com no  
1.6.1 1.6 2001 CNRI yes (2)  
2.1 2.0+1.6.1 2001 PSF no  
2.0.1 2.0+1.6.1 2001 PSF yes  
2.1.1 2.1+2.0.1 2001 PSF yes  
2.2 2.1.1 2001 PSF yes  
2.1.2 2.1.1 2002 PSF yes  
2.1.3 2.1.2 2002 PSF yes  
2.2.1 2.2 2002 PSF yes  
2.2.2 2.2.1 2002 PSF yes  
2.2.3 2.2.2 2003 PSF yes  
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2.3.3 2.3.2 2002-2003 PSF yes  
2.3.4 2.3.3 2004 PSF yes  
2.3.5 2.3.4 2005 PSF yes  
2.4 2.3 2004 PSF yes  
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## ***python2-2\_3***

### A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-  
from compatible? (1)

0.9.0 thru 1.2	1991-1995	CWI	yes	
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes



2.2.2 2.2.1 2002 PSF yes  
2.2.3 2.2.2 2003 PSF yes  
2.3 2.2.2 2002-2003 PSF yes  
2.3.1 2.3 2002-2003 PSF yes  
2.3.2 2.3.1 2002-2003 PSF yes  
2.3.3 2.3.2 2002-2003 PSF yes  
2.3.4 2.3.3 2004 PSF yes  
2.3.5 2.3.4 2005 PSF yes  
2.4 2.3 2004 PSF yes  
2.4.1 2.4 2005 PSF yes  
2.4.2 2.4.1 2005 PSF yes  
2.4.3 2.4.2 2006 PSF yes  
2.4.4 2.4.3 2006 PSF yes  
2.5 2.4 2006 PSF yes  
2.5.1 2.5 2007 PSF yes  
2.5.2 2.5.1 2008 PSF yes  
2.5.3 2.5.2 2008 PSF yes  
2.6 2.5 2008 PSF yes  
2.6.1 2.6 2008 PSF yes  
2.6.2 2.6.1 2009 PSF yes  
2.6.3 2.6.2 2009 PSF yes  
2.6.4 2.6.3 2009 PSF yes  
2.6.5 2.6.4 2010 PSF yes  
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## ***python27-2.7.8\_4***

### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-  
from compatible? (1)

0.9.0 thru 1.2	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2 1995-1999	CNRI	yes
1.6	1.5.2 2000	CNRI	no
2.0	1.6 2000	BeOpen.com	no
1.6.1	1.6 2001	CNRI	yes (2)
2.1	2.0+1.6.1 2001	PSF	no
2.0.1	2.0+1.6.1 2001	PSF	yes
2.1.1	2.1+2.0.1 2001	PSF	yes
2.2	2.1.1 2001	PSF	yes
2.1.2	2.1.1 2002	PSF	yes
2.1.3	2.1.2 2002	PSF	yes
2.2.1	2.2 2002	PSF	yes
2.2.2	2.2.1 2002	PSF	yes
2.2.3	2.2.2 2003	PSF	yes
2.3	2.2.2 2002-2003	PSF	yes
2.3.1	2.3 2002-2003	PSF	yes
2.3.2	2.3.1 2002-2003	PSF	yes
2.3.3	2.3.2 2002-2003	PSF	yes
2.3.4	2.3.3 2004	PSF	yes
2.3.5	2.3.4 2005	PSF	yes
2.4	2.3 2004	PSF	yes
2.4.1	2.4 2005	PSF	yes
2.4.2	2.4.1 2005	PSF	yes

2.4.3 2.4.2 2006 PSF yes  
2.4.4 2.4.3 2006 PSF yes  
2.5 2.4 2006 PSF yes  
2.5.1 2.5 2007 PSF yes  
2.5.2 2.5.1 2008 PSF yes  
2.5.3 2.5.2 2008 PSF yes  
2.6 2.5 2008 PSF yes  
2.6.1 2.6 2008 PSF yes  
2.6.2 2.6.1 2009 PSF yes  
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## **qs 0.4.0**

node-querystring

query string parser for node supporting nesting, as it was removed from `0.3.x`, so this library provides the previous and commonly desired behaviour (and twice as fast). Used by [express](http://expressjs.com), [connect](http://senchalabs.github.com/connect) and others.

Installation

```
$ npm install qs
```

Examples

```
require('qs').parse('user[name][first]=tj&user[email]=tj');  
=> { user: { name: { first: 'tj' }, email: 'tj' } }
```

Testing

Install dev dependencies:

```
$ npm install -d
```

and execute:

```
$ make test
```

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```
define LUACMSGPACK_DESCRIPTION "MessagePack C implementation for Lua"
```

```
define LUA_AUTHORS "R. Ierusalimschy, L. H. de Figueiredo & W. Celes"
```

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jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOzZcmu7IADO8hIU//  
v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AFebLDQWhi1JiXC  
0JsaB8crR3M=  
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## ***vim-lite-7.4.398***

uganda.txt\* For Vim version 7.3. Last change: 2010 Aug 07

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SUMMARY  
iccf\* \*ICCF

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=====

Kibaale Children's Centre                      \*kcc\* \*Kibaale\* \*charity

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate  
 Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps.

When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:  
Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.  
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.  
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.  
Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353  
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:  
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the

currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL47 PSTB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address

below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

stichting ICCF Holland

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

## wpa

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