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```
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To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant

<info@winimage.com> for the Windows DLL version. The zlib home page is <http://zlib.net/> . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/> .

The changes made in version 1.2.7 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32

compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
madler@alumni.caltech.edu

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1. squeezenet 1.1

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2. caffe.proto master

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## **Software: flite 2.1**

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Flite is an open source small fast run-time text to speech engine. It is the latest addition to the suite of free software synthesis tools including University of Edinburgh's Festival Speech Synthesis System and Carnegie Mellon University's FestVox project, tools, scripts and documentation for building synthetic voices. However, flite itself does not require either of these systems to compile and run.

The core Flite library was developed by Alan W Black <awb@cs.cmu.edu> (mostly in his so-called spare time) while employed in the Language Technologies Institute at Carnegie Mellon University. The name "flite", originally chosen to mean "festival-lite" is perhaps doubly appropriate as a substantial part of design and coding was done over 30,000ft while awb was travelling, and (usually) isn't in meetings.

The voices, lexicon and language components of flite, both their compression techniques and their actual contents were developed by Kevin A. Lenzo <lenzo@cs.cmu.edu> and Alan W Black <awb@cs.cmu.edu>.

Flite is the answer to the complaint that Festival is too big, too slow, and not portable enough.

- o Flite is designed for very small devices, such as PDAs, and also for large server machines which need to serve lots of ports.
- o Flite is not a replacement for Festival but an alternative run time engine for voices developed in the FestVox framework where size and speed is crucial.
- o Flite is all in ANSI C, it contains no C++ or Scheme, thus requires more care in programming, and is harder to customize at run time.
- o It is thread safe
- o Voices, lexicons and language descriptions can be compiled (mostly automatically for voices and lexicons) into C representations from their FestVox formats
- o All voices, lexicons and language model data are const and in the text segment (i.e. they may be put in ROM). As they are linked in at compile time, there is virtually no startup delay.
- o Although the synthesized output is not exactly the same as the same voice in Festival they are effectively equivalent. That is, flite doesn't sound better or worse than the equivalent voice in festival, just faster, smaller and scalable.

- o For standard diphone voices, maximum run time memory requirements are approximately less than twice the memory requirement for the waveform generated. For 32bit architectures this effectively means under 1M.
- o The flite program supports, synthesis of individual strings or files (utterance by utterance) to direct audio devices or to waveform files.
- o The flite library offers simple functions suitable for use in specific applications.

Flite is distributed with a single 8K diphone voice (derived from the cmu\_us\_kal voice), a pruned lexicon (derived from cmulex) and a set of models for US English. Here are comparisons with Festival using basically the same 8KHz diphone voice

	Flite	Festival
core code	60K	2.6M
USEnglish	100K	??
lexicon	600K	5M
diphone	1.8M	2.1M
runtime	<1M	16-20M

On a 500Mhz PIII, a timing test of the first two chapters of "Alice in Wonderland" (doc/alice) was done. This produces about 1300 seconds of speech. With flite it takes 19.128 seconds (about 70.6 times faster than real time) with Festival it takes 97 seconds (13.4 times faster than real time). On the ipaq (with the 16KHz diphones) flite synthesizes 9.79 time faster than real time.

Requirements:

-----

- o A good C compiler, some of these files are quite large and some C compilers might choke on these, gcc is fine. Sun CC 3.01 has been tested too. Visual C++ 6.0 is known to fail on the large diphone database files. We recommend you use GCC Windows Subsystem for Linux Cygwin or mingw32 instead.

- o GNU Make

- o An audio device isn't required as flite can write its output to a waveform file.

Supported platforms:

-----

We have successfully compiled and run on

- o Various Intel Linux systems (and iPaq Linux), under various versions of GCC (2.7.2 to 6.x)

- o Mac OS X

- o Various Android devices

- o Various openwrt devices

- o FreeBSD 3.x and 4.x

- o Solaris 5.7, and Solaris 9

- o Windows 2000/XP and later under Cygwin 1.3.5 and later

- o Windows 10 with Windows Subsystem for Linux

- o Successfully compiles and runs under 64Bit Linux architectures

- o OSF1 V4.0 (gives an unimportant warning about sizes when compiled cst\_val.c)

Previously we supported PalmOS and Windows CE but these seem to be rare nowadays so they are no longer actively supported.

Other similar platforms should just work, we have also cross compiled on a Linux machine for StrongARM. However note that new byte order architectures may not work directly as there is some careful

byte order constraints in some structures. These are portable but may require reordering of some fields, contact us if you are moving to a new architecture.

## News

----

### New in 2.1 (Oct 2017)

- o Improved Indic front end support (thanks to Suresh Bazaj @ Hear2Read)
- o 18 English Voices (various accents)
- o 12 Indian Voices (Bengali, Gujarati, Hindi, Kannada, Marathi, Panjabi Tamil and Telugu) usually with bilingual (with English) support
- o Can do byteswap architectures [again] (ar9331 yun arduino, zsun etc)
- o flitecheck front-end test suite
- o grapheme based festvox builds give working flitevox voices
- o SAPI support for CG voices (thanks to Alok Parlikar @ Cobalt Speech and Language INC)
- o gcc 6.x support
- o .flitevox files (and models) 40% of previous size, but same quality

### New in 2.0.0 (Dec 2014)

- o Indic language support (Hindi, Tamil and Telugu)
- o SSML support
- o CG voices as files accessible by file:/// and http:// (and set of 13 voices to load)
- o random forest (multimodel support) improves voice quality

- o Supports different sample rates/mgc order to tune for speed
- o Kal diphone 500K smaller
- o Fixed lots of API issues
- o thread safe (again) [after initialization]
- o Generalized tokenstreams (used in Bard Storyteller)
- o simple-Pulseaudio support
- o Improved Android support
- o Removed PalmOS support from distribution
- o Companion multilingual ebook reader Bard Storyteller  
<https://github.com/festvox/bard>

#### New in 1.4.1 (March 2010)

- o better ssml support (actually does something)
- o better clunit support (smaller)
- o Android support

#### New in 1.4 (December 2009)

- o crude multi-voice selection support (may change)
- o 4 basic voices are included 3 clustergen (awb, rms and slt) plus  
the kal diphone database
- o CMULEX now uses maximum onset for syllabification
- o alsa support
- o Clustergen support (including mlpg with mixed excitation)  
But is still slow on limited processors

- o Windows support with Visual Studio (specifically for the Olympus Spoken Dialog System)
- o WinCE support is redone with cegcc/mingw32ce with example example TTS app: Flowm: Flite on Windows Mobile
- o Speed-ups in feature interpretation limiting calls to alloc
- o Speed-ups (and fixes) for converting clunits festvox voices

#### New in 1.3-release (October 2005)

- o fixes to lpc residual extraction to give better quality output
- o An updated lexicon (festlex\_CMU from festival-2.0.95) and better compression its about 30% of the previous size, with about the same accuracy
- o Fairly substantial code movements to better support PalmOS and multi-platform cross compilation builds
- o A PalmOS 5.0 port with an small example talking app ("flop")
- o runs under ix86\_64 linux

#### New in 1.2-release (February 2003)

- o A build process for diphone and clunits/ldom voices  
FestVox voices can be converted (sometimes) automatically
- o Various bug fixes
- o Initial support for Mac OS X (not talking to audio device yet) but compiles and runs
- o Text files can be synthesize to a single audio file
- o (optional) shared library support (Linux)

#### Compilation

-----

In general

```
tar zxvf flite-2.1-current.tar.gz
```

```
cd flite-2.1-current
```

```
./configure
```

```
make
```

```
make get_voices
```

Where tar is gnu tar (gtar), and make is gnu make (gmake).

Or

```
git clone http://github.com/festvox/flite
```

```
cd flite
```

```
./configure
```

```
make
```

```
make get_voices
```

Configuration should be automatic, but maybe doesn't work in all cases especially if you have some new compiler. You can explicitly set the compiler in config/config and add any options you see fit. Configure tries to guess these but it might be unable to guess for cross compilation cases Interesting options there are

```
-DWORDS_BIGENDIAN=1 for bigendian machines (e.g. Sparc, M68x, ar9331)
```

```
-DNO_UNION_INITIALIZATION=1 For compilers without C 99 union  
initialization
```

```
-DCST_AUDIO_NONE if you don't need/want audio support
```

There are different sets of voices and languages you can select between them (and your own sets if you make config/XXX.lv). For example

```
./configure --with-langvox=transtac
```

Will use the languages and voices defined in config/transtac.lv

Usage:

-----

The `./bin/flite` binary contains all supported voices and you may choose between the voices with the `-voice` flag and list the supported voices with the `-lw` flag. Note the `kal` (diphone) voice is a different technology from the others and is much less computationally expensive but more robotic. For each voice additional binaries that contain only that voice are created in `./bin/flite_FULLVOICENAME`, e.g. `./bin/flite_cmu_us_awb`. You can also refer to external clustergen `.flitevox` voice via a pathname argument with `-voice` (note the pathname must contain at least one `/`)

If it compiles properly a binary will be put in `bin/`, note by default `-g` is on so it will be bigger than is actually required

```
./bin/flite "Flite is a small fast run-time synthesis engine" flite.wav
```

Will produce an 8KHz riff headered waveform file (riff is Microsoft's wave format often called `.WAV`).

```
./bin/flite doc/alice
```

Will play the text file `doc/alice`. If the first argument contains a space it is treated as text otherwise it is treated as a filename. If a second argument is given a waveform file is written to it, if no argument is given or `"play"` is given it will attempt to write directly to the audio device (if supported). if `"none"` is given the audio is simply thrown away (used for benchmarking). Explicit options are also available.

```
./bin/flite -v doc/alice none
```

Will synthesize the file without playing the audio and give a summary of the speed.

```
./bin/flite doc/alice alice.wav
```

will synthesize the whole of `alice` into a single file (previous versions would only give the last utterance in the file, but that is fixed now).

An additional set of feature setting options are available, these are \*debug\* options, Voices are represented as sets of feature values (see lang/cmu\_us\_kal/cmu\_us\_kal.c) and you can override values on the command line. This can stop flite from working if malicious values are set and therefore this facility is not intended to be made available for standard users. But these are useful for debugging. Some typical examples are

Use simple concatenation of diphones without prosodic modification

```
./bin/flite --sets join_type=simple_join doc/intro
```

Print sentences as they are said

```
./bin/flite -pw doc/alice
```

Make it speak slower

```
./bin/flite --setf duration_stretch=1.5 doc/alice
```

Make it speak higher pitch

```
./bin/flite --setf int_f0_target_mean=145 doc/alice
```

The talking clock is an example talking clock as discussed on <http://festvox.org/ldom> it requires a single argument HH:MM under Unix you can call it

```
./bin/flite_time `date +%H:%M`
```

List the voices linked in directly in this build

```
./bin/flite -lv
```

Speak with the US male rms voice (builtin version)

```
./bin/flite -voice rms -f doc/alice
```

Speak with the "Scottish" male awb voice (builtin version)

```
./bin/flite -voice awb -f doc/alice
```

Speak with the US female slt voice

```
./bin/flite -voice slt -f doc/alice
```

Speak with AEW voice, download on the fly from festvox.org

```
./bin/flite -voice http://festvox.org/flite/packed/flite-2.1/voices/cmudict0-us\_aew.flitevox -f doc/alice
```

Speak with AHW voice loaded from the local file.

```
./bin/flite -voice voices/cmudict0-us_ahw.flitevox -f doc/alice
```

You can download the available voices into voices/

```
./bin/get_voices us_voices
```

and/or

```
./bin/get_voices indic_voices
```

Voice quality

-----

So you've eagerly downloaded flite, compiled it and run it, now you are disappointed that it doesn't sound wonderful, sure its fast and small but what you really hoped for was the dulcit tones of a deep baritone voice that would make you desperately hang on every phrase it mellifluously produces. But instead you get an 8Khz diphone voice that sounds like it came from the last millenium.

Well, first, you are right, it is an 8KHz diphone voice from the last millenium, and that was actually deliberate. As we developed flite we wanted a voice that was stable and that we could directly compare with that very same voice in Festival. Flite is an \*engine\*. We want to

be able take voices built with the FestVox process and compile them for flite, the result should be exactly the same quality (though of course trading the size for quality in flite is also an option). The included voice is just a sample voice that was used in the testing process.

We expect that often voices will be loaded from external files, and we have now set up a voice repository in

[http://festvox.org/flite/flite-2.1/voices/\\*.flitevox](http://festvox.org/flite/flite-2.1/voices/*.flitevox)

If you visit there with a browser you can hear the examples. You can also download the .flitevox files to you machine so you don't need a network connect everytime you need to load a voice.

We are now actively adding to this list of available voices in English (16) and other languages.

Bard Storyteller: <https://github.com/festvox/bard>

-----

Bard is a companion app that reads ebooks, both displaying them and actually reading them to you out loud using flite. Bard supports a wide range of fonts, and flite voices, and books in text, html and epub format. Bard is used as a evaluation of flite's capabilities and an example of a serious application using flite.

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