

# Flite TTS

## About

### Speech CS CMU

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Website: <http://www.speech.cs.cmu.edu/flite/>

## Definition

Flite is a free open source Text-to-Speech engine. Flite (Festival Lite) is a small, fast run-time synthesis engine developed at CMU and primarily designed for small embedded machines and/or large servers.

## Languages

American, English

## Installation

Unzip and untar the Flite package by using the command:

```
# tar xvzf flite_V1.x_date.tar.gz
```

Go to the directory of the Flite and then, type the following command.

```
# cd flite_V1.x_date  
# ./install.sh
```

## Configuration

This is the PHP script used to generate wav files from Flite:

```
<?php  
error_reporting ( E_ALL );
```

```
include("config.php");
include("ttslib.php");

if(!defined('DEBUG'))
    error_reporting(0);

debug("Mode debug enabled");

if(isset($_POST["text"])){
    $text = $_POST["text"];
    if(isset($_POST["format"])) $format = $_POST["format"];
    debug(" POST VARIABLES :");
    debug(print_r( $_POST,true));
}elseif(isset($_GET["text"])){
    $text = $_GET["text"];
    if(isset($_GET["format"])) $format = $_GET["format"];
    debug(" GET VARIABLES :");
    debug(print_r( $_GET,true));
}else
    httperror();

debug(" text = $text");
debug(" format = $format");

switch($format){
    case 'gif':
        headerdebug("Content-Type: image/gif");
        headerdebug('Content-Disposition: attachment; filename="file.gif"');
        break;
    case 'wav':
    default :
        headerdebug("Content-Type: audio/wav");
        headerdebug('Content-Disposition: attachment; filename="file.wav"');
}

$filename=tempnam("/tmp",$ttsname."TMP");
$file=fopen($filename, "w");

debug(" Temp file = $filename");

register_shutdown_function('cleanup',$filename);
fwrite($file, $text);
fwrite($file, "\n");
fclose($file);

$program = "/usr/bin/flite";
$time_start = microtime(true);
register_shutdown_function('cleanup',$filename.wav);
exec($program." -f $filename -o $filename.wav", $return, $status);
$time_end = microtime(true);
```

```
$texec = $time_end - $time_start;
$outsize=filesize("$filename.wav");

readfile("$filename.wav");

if($enable_record_to_cdr)
register_shutdown_function('cdrrecord',$ttsname,$lang,$status,$texec,$text,$
outsize);

register_shutdown_function('garbage',$ttsname);

// vim: set filetype=php expandtab tabstop=2 shiftwidth=2 autoindent
smartindent:
?>
```

The TTS package install the HTTP scripts in:

```
/var/www/tts/flite
```

In a default Debian installation, you can test the TTS installation with :

```
http://yourip/tts/flite/index.php
```

This web page will generate wav files in PCM 16bit 8kHz mono.

## Release Notes

Install the script on your Apache/PHP server. Configure the VoiceXML Browser (Text-to-Speech Option) and restart the VoiceXML interpreter to get the new configuration.

Flite have a dependency to libasound (with Debian install the package libasound2).

From:  
<https://wiki.voximal.com/> - **Voximal documentation**

Permanent link:  
[https://wiki.voximal.com/doku.php?id=legacy:text-to-speech\\_guide:flite\\_tts:start](https://wiki.voximal.com/doku.php?id=legacy:text-to-speech_guide:flite_tts:start)

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