

gir

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Contents

1	gir	1
1.1	gir.guide	1
1.2	Disclaimer	2
1.3	Copyright and Distribution	2
1.4	introduction	3
1.5	req	3
1.6	installation	4
1.7	virtualgir	4
1.8	distribution	5
1.9	future	6
1.10	registration	6
1.11	usage	8
1.12	more_links	11
1.13	preferences	11
1.14	wanted	11
1.15	author	12
1.16	history	12
1.17	tnx	14

Chapter 1

gir

1.1 gir.guide

GIR

The Realtime Internet Audio Player for GSM 6.10 speech compression
for AmigaOS.

.

Release 0.4

1996-1997 by Sinisa Kesic

Disclaimer

Copyright

Introduction

Requirements

Installation

VirtualGir & GirServer

Distribution

Usage

Hot links

gir.prefs

The future

The history

Registration

Wanted

Author

Thanks to

1.2 Disclaimer

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1.3 Copyright and Distribution

GIR, VirtualGir, GirServer

Copyright 1996/97 by Sinisa Kesic

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public@systematics.fido.hr

GSM 06.10 13 kbit/s RPE/LTP speech compression

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Universitaet Berlin.

THERE IS ABSOLUTELY NO WARRANTY FOR THIS SOFTWARE.

Jutta Degener (jutta@cs.tu-berlin.de)
Carsten Bormann (cabo@cs.tu-berlin.de)

1.4 introduction

Introduction

What is GIR ?

GIR is small Internet realtime audio player for GSM 06.10 speech compression.

Gir was written in C and compiled with GNU C 2.7.2.1 .
Gir uses some of API functions from GSM 6.10 source distribution.

What is GSM ?

GSM 06.10 compresses frames of 160 13-bit samples (8 kHz sampling rate, i.e. a frame rate of 50 Hz) into 260 bits; for compatibility with the typical UNIX applications, our implementation turns frames of 160 16-bit linear samples into 33-byte frames (1650 Bytes/s).

The quality of the algorithm is sufficient for reliable speaker recognition; even music often survives transcoding in recognizable form (given the bandwidth limitations of 8 kHz sampling rate).

Is this a good idea ?

I don't know, at first I obviously thought so, but when I looked for testers in my country, I did not find any interest in this project. But in other countries I found a lot of people who liked it so I continued developing GIR . Thanks all for support .

Please report all bugs and suggestions to :

Author

1.5 req

Requirements

An AmigaOS computer

- mc68020+

-AmiTCP (Miami) or compatible connection to internet

-AmigaOS 2.0.+

Gir no more support ixemul.library, because many people couldn't download ixemul v47.0 packet (about 3 Mb) from ftp.ninemoons.com .

Sorry ADE, when I find ixemul.library v47.0 on Aminet I'll continue support ixemul.library .

1.6 installation

Installation

Copy the GIR directory and all files where ever you want to.

1.7 virtualgir

VirtualGir & GirServer

Virtual Gir is a version of the Gir program, that you can use from any web browser. ↔

Gir Server is a server for only one client (more clients next time), basically this is simple web-http server on port 80. ↔

Why Virtual Gir ?

Virtual Gir shows the Amiga community, how any program may work from just about any web browser without *ctiveX commands, I think it is good idea. To do this you have to have a server, in this case GirServer. For docs and GirServer SDK you must register your Gir, but contact the author first.

How can I use VirtualGir ?

First you must start a TCP/IP stack (Amitcp or Miami or ...), then click the VirtualGir icon. Don't start GirServer. Then go to any web browser and write the URL:

http:///index.html (must be "http:///index.html", not "http://index.html"

that means : http://localhost/index.html (on some browsers this might not work ↔)

The index.html being the one in Dir GIR05.

Now a page pops up on your browser, that acts like the GIR05 program itself. That is, use this page like the real Gir.

You can start VirtualGir from any web browser and any computer on the net, but you must know the IP address of the machine, where it is started. VirtualGir will only play sound on the Amiga it is started from.

What is GirServer ?

It is a http server on port 80. You may use this server for communication with a Gir/http client.

GirServer has a realtime gsm encoder, and a sample named "speach" in same directory as the GirServer will be realtime encoded to the Gir client when the client asks for "speach.gsm" from GirServer.

GirServer will only use the names "speach.gsm" and "speach" for realtime encoding. ←

The "speach" file must have raw 8 bit, 8 kHz sampling rate format. This option will be better documented next time, for now that's all.

You can put the file help.html in the same directory as the GirServer, if the client requests a file, that is not "on" the GirServer domain. ←

Anyone that wants more docs and SDK for GirServer system please contact the author. ←

Author

1.8 distribution

Distribution

Feel free to Email me. I would be happy if you want to distribute Gir05 to anyone, who has an interest in it.

It's free for non-commercial purpose (pd/shareware collection), but if you ←

want to distribute for commercial purpose, you must contact the author ← first.

Author

1.9 future

Future

- More sound-speech compressions, maybe support for MIDI files, MPEG, who knows ↔
?
- PPC version, of course eventually!!!
- Possible option for real time voice chat, but this demands a 68060 or the PPC ↔
.

1.10 registration

Registration

If you like this software, please contact me and I will continue to develop it.

From Gir version 0.4, I decided to make Gir shareware. I hope to make a little money this way.

I don't have time and money for programming for nothing.

Feel free to contact me.

Prices-

If you send me 5 US\$, I'll send you the keyfile for Gir and you get rid of the stupid onscreen messages.

If you pay another 5 US\$ I'll update your key and all future features will be free. ↔

So if you send me 10 US\$ (or more :-), I'll send to you key for Gir and all new features in future versions will be free for you .

How do you register ?

All you need is to send me file "my_key" from Gir directory. This file is produced by Gir, and will be your personal hardware serial number.

So, if you pay 5/10 US\$ I'll send you "key" file and you will get rid of the stupid messages.

Send me the file "my_key" which you'll find in the GIR05 directory and all your data by email, or on a floppy disk by mail to my address:

Author

For the moment, you must send money only in safely mail.

If you want to pay via the bank please first contact the author.

If you don't know how to send binary file with email contact me first by email.

You must send these data:

Name: _____

Email: _____

Address: _____

Country:_____

Tel: _____

OS: 2.0, 3.0, 3.1, pOS _____

CPU: 68020, 68030, 68040, 68060, 603, 604

MHz: _____

FPU: 68881, 6882, 603, 604 ...

I pay to you _____ US\$ (DM ...)

If you don't want to register, you may use the version with the stupid messages.
I'm planning to include MPEG compression to GIR in future versions but this
is not a small task and don't expect this for tomorrow .

If you want to speedup the project, however, AND help author send 10 US \$ (~17 ↔
DM)

in >>safety<< mail.

If someone wants to pay on my bank account please contact me first .

Sorry, but I really need the money.

Author

1.11 usage

Usage

quick: click on GIR icon, and do what you want.

add this button will add link from the link window to
the data file gir.prefs and add link on listview window

connect this button will do connection to host written in link window

volume sound volume

copy copy URL text to the Clipboard

paste paste text from the Clipboard to the URL string gadget

stop will break the connection and stop the sound

save will save a gsm file to disk in same directory as GIR,
the save button is only enabled until you press the connect ↔
button.

In the string gadget you may write the Internet address of a gsm file,
the address must have the following format:

```
http://address.address.address/dir/dir/file.gsm
```

Example: `http://www.tib.at/download/GSM/beatles.au.gsm/`

This version of GIR supports playing local files. To do this write the local path of the file into the string gadget:

```
dh0:dir/dir/file.gsm
```

If you play gsm files from the GIR directory you only need to write:

```
name_of_file.gsm
```

AUTO SCANNING

From version 0.4, Gir has the option to autoscan html documents: write the URL address of the html document into the string gadget.

Gir then automatically scans the html document and all new gsm links is added to the URL hotlist.

This option is nice if you find GSM links with IBrowse. In Ibrowse you choose 'Copy URL to Clipboard'.

Then:

In Gir: just press paste button and connect button. Gir then automatically scans the html file for GSM links.

CLI USAGE

From version Gir 0.3 you may start the GIR from shell, the syntax is

```
GIR file.gsm
```

or

```
GIR http://internet.address/dir/file.gsm
```

or

```
GIR
```

All that you write after "GIR" will be displayed in the string gadget.

For web browsers set up a mime-type "sound/x-gsm" and command:" littlegir %s " without ". For extension set "gsm" .

If you want to use the commands 'stop' and 'volume' in the browser, copy ←
Gir
and gir.prefs to the same path as the browser (i.e. to the same directory).

It can be a problem with certain webbrowsers, that they don't support external programs for direct connecting to the net, but only with mime-types.

PROXY

From version 0.4 Gir have the option to use proxy servers. If you use Proxy you will have to set up proxy data in the Gir tooltypes.

It is rather simple:

Click the Gir icon once and then in the Workbench menu you choose Icon/Information.

In the Information window you click the NEW button and write in the string gadget in the following format:

```
proxy=amiga.proxy.com (don't use "http://" in address of proxy )
proxy-port=8080
```

And end the session with 'Save'.

You must know the name of your proxy and proxy port. 'amiga.proxy.com' is but an example

If you start Gir or littlegir from CLI, proxy doesn't work !!!

Please report me if you have troubles with proxy, this is still beta.

AHI

This is also still beta, I don't know whether it's working properly. I hope that all with soundcards will report to me if it's working.

If you want to use AHI you must type in the tooltypes : "ahi" without ". Use the same procedure as mentioned with setting up proxy.

TOOLS

wav2gsm tool for converting wave (Windows-tm) format to GSM file format.

raw2gsm

tool for converting 8 bit raw iff sample to GSM file

usage:

```
raw2iff sample file.gsm
```

gsm2raw

tool for converting gsm file to 8 bit raw iff sample

usage:

```
gsm2raw file.gsm sample
```

littlegir

CLI version of GIR program for web browsers and slow CPUs
littlegir can't use proxy and AHI device.

StopVirtualGir

this tool stops and exits Virtual Gir

1.12 more_links

More links

http://www.cam.org/~noelbou/gsm_links.html

<http://itre.ncsu.edu/gsm/>

GSM author's homepage :

<http://www.cs.tu-berlin.de/~jutta/toast.html>

1.13 preferences

gir.prefs

In the gir.prefs you will find some links to gsm files on the Internet.

You can add/delete links with any text editor .

1.14 wanted

Wanted

- docs/sources about compression. If you have or know some, please contact the GIR author. ↔
 - URL address for the Gir hotlist
- Send me your gir.prefs and I'll include all interesting links in future GIR releases ↔
- someone to translate gir.guide to other languages, I'll send a free key for Gir to the author ↔
- for translations, but contact me first.
- bugs report
 - What do you think about Virtual Gir and Gir server ?

Author

1.15 author

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C R O A T I A

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1.16 history

history

Version: 00.01 27-Jan-97

include : GIR , Gir.guide
feature :
- realtime play of GSM files from Internet

Version: 00.02 14-Mar-97

include: GIR , Gir.guide , raw2gsm , gsm2raw , littlegir
for 68000 and 68020 versions
feature:
- realtime play of local GSM files and GSM files from Internet
- possible start form CLI
- save option
- includes cli version of GIR named littlegir for WEB browsers
- includes tool for converting 8 bit raw iff samples to gsm files: ↔
raw2gsm
- includes tool for converting gsm files to 8 bit raw iff samples: ↔
gsm2raw

Version: 00.03 24-Mar-97

include: GIR , Gir.guide , raw2gsm , gsm2raw , littlegir
for 68000 and 68020 versions
feature:
- fixed all known bugs from Gir & gir.guide
- new gui
- rewritten buffer mechanism

Version: 00.04 10-Apr-97

include: GIR , Gir.guide , raw2gsm , gsm2raw , littlegir
only for 68020+ version
feature:
- rewritten all Gir for new 3.1 includes (Gir03 with OS 3.1 had ↔
problems)
- fixed all known bugs from Gir03
- added configuration with tooltypes
- added auto scan functions for html documents
- added proxy support (still beta, please report me)
- added menu
- added AHI support for sound cards (beta! on Draco it doesn't work)
- added clipboard function copy/paste for communications with IBrowse
- now Gir gives messages to the user in a string window
- added stupid messages for unregistered users
- more optimized

- more gsm links

Version: 00.05 1-Sep-97

include: GIR , Gir.guide , raw2gsm , gsm2raw , littlegir, VirtualGir & ↔
GirServer

for 68020+ and 68040 versions

feature:

- added multimedia server - VirtualGir and GirServer, see the docs
- recompiled all programs for new ixemul 47.0
- new 68040 version for all programs and tools
- fixed all known bugs from Gir04
- Croatian translation of Gir05 guide
- Spanish translation of Gir04 guide
- Danish translation of the Gir05 guide

Version: 00.06 1-Nov-97

include: GIR , Gir.guide, wav2gsm, raw2gsm, gsm2raw, littlegir, VirtualGir & ↔
GirServer

for 68020+ and 68040 versions

feature:

- no more support for ixemul.library because ixemul v47.0 isn't on ↔
Aminet
- tool for converting Wave (Microsoft Windows tm) file format to Gsm ↔
file format
- new links to gsm files
- fixed all known bugs from Gir05
- fixed Gir bug for ahi.device (now working great)
- Croatian translation of Gir06 guide
- Spanish translation of Gir05 guide
- Danish translation of the Gir05 guide
- Italian translation of the Gir05 guide
- NewIcons 4.0 support

1.17 tnx

Thanks

Thanks to all who support me and my project "GIR" by email ,and all ↔
who
send me suggestions and ideas for new features in Gir.

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Johan Otterstorm for testing Gir on Draco for AHI support.

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Frank Arlt for proxy testing and suggestions.

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Roberto 'Flashback' Agria for the Italian translation of Gir guide

Sinisa Lolic for testing on 68040 CPU
