

# A HYBRID "UBUNTU"/"LINUX MINT" CONFIGURATION FOR VIEWING LIVE OVER-THE-AIR TELEVISION, SENDING ANALOG FAXES, AND PLAYING KARAOKE MUSIC

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# SUMMARY

We installed "Linux Mint" with "Ubuntu" running inside it as a virtual machine in order to have a "Linux" computer that lets us watch over-the-air television, send and receive analog faxes, and play karaoke music.

# TOPICS

- Three Have-to-Have Functions
- Top Two Linux Distributions
- Capabilities of Linux Mint 16
- Capabilities of Ubuntu 14.04
- A Hybrid Configuration of Linux Mint and Ubuntu

# THREE HAVE-TO-HAVE FUNCTIONS

- Watch live over-the-air television with the "**Kaffeine**" program
- Send analog faxes with the "**efax-gtk**" program
- Play karaoke music with either the "**PyKaraoke**" program

# THREE HAVE-TO-HAVE FUNCTIONS

## (continued)

- For a description of how you can watch live over-the-air television with the free "**Kaffeine**" program, see [http://aztcs.org/meeting\\_notes/winhard\\_sig/add-ons/TV/TVinUbuntu.pdf](http://aztcs.org/meeting_notes/winhard_sig/add-ons/TV/TVinUbuntu.pdf)
- See also <http://www.kde.org/applications/multimedia/kaffeine>

# THREE HAVE-TO-HAVE FUNCTIONS

(continued)

- For a description of how you can send analog faxes with the free "**efax-gtk**" program, see, see [http://aztcs.org/meeting\\_notes/win\\_hardsig/add-ons/fax/fax-Ubuntu.pdf](http://aztcs.org/meeting_notes/win_hardsig/add-ons/fax/fax-Ubuntu.pdf)
- See also <http://efax-gtk.sourceforge.net/>

# THREE HAVE-TO-HAVE FUNCTIONS

(continued)

- For a description of how you can play free karaoke music with the free "**PyKaraoke**" program, see [http://aztcs.org/meeting\\_notes/win\\_hardsig/add-ons/karaoke/karaoke-Ubuntu.pdf](http://aztcs.org/meeting_notes/win_hardsig/add-ons/karaoke/karaoke-Ubuntu.pdf)
- See also <http://www.kibosh.org/pykaraoke/>



# TOP TWO LINUX DISTRIBUTIONS

- According to the hit counters at <http://distrowatch.com>, are  
**Linux Mint**  
and  
**Ubuntu**

# TOP TWO LINUX DISTRIBUTIONS

(continued)

- The stable, non-beta versions of the top two Linux distributions are:

**Linux Mint 16**

and

**Ubuntu 14.04**

# TOP TWO LINUX DISTRIBUTIONS

## (continued)

- "Linux Mint 16" and "Ubuntu 14.04" are "forks" from "Debian.."
- "Linux Mint.." has slightly better multimedia drivers and support relative to "Ubuntu".  
"Ubuntu.." has slightly better fax modem drivers and support relative to "Linux Mint".

# ANALYSIS OF LINUX MINT 16"

- After we installed the free "Kaffeine" program into "Linux Mint 16 with Cinnamon", the "Digital TV" function of "Kaffeine" provides us with reliable live over-the-air television viewing.

# ANALYSIS OF LINUX MINT 16"

- The quality of this live television picture is better than other distributions of Linux.. that we have tried with our Hauppauge 950Q USB tuner:

Start

Playback

Playlist

Television

Search:

Channel	Number
002-1 KCBS-HD	1
002-2 KCBS-SD	2
004-1 NBC4-LA	3
004-2 COZY-TV	4
005-1 KTLA-DT	5
005-2 Antenna	6
005-3 This TV	7
009-1 KCAL-DT	8
011-1 KTTV DT	9
018-1 LA18.1	10
018-2 LA18.2	11
018-3 LA18.3	12
018-4 LA18.4	13
018-5 LA18.5	14
018-6 LA18.6	15
018-7 LA18.7	16
018-8 LA18.8	17
018-9 LA18.9	18
022-1 KWHY-DT	19
022-2 KWHYSD1	20
022-3 KWHYSD2	21
022-4 KWHYSD3	22
022-5 KWHYSD4	23
022-6 KWHYSD5	24
026-1 KVHD-LD	25
026-10 KVHD-LD	26
026-12 KVHD-LD	27
026-13 KVHD-LD	28
026-14 KVHD-LD	29
026-15 KVHD-LD	30
026-16 KVHD-LD	31
026-2 KVHD-LD	32
026-3 KVHD-LD	33
026-4 KVHD-LD	34
026-5 KVHD-LD	35



eng
off



00:00:00

# ANALYSIS OF LINUX MINT 16" (continued)

- The "efax-gtk" program was unable to send analog faxes with our US Robotics data/fax modem after we installed it into "Linux Mint 16".

# efax-gtk



File Log Help

Fax to send

/home/testuser/Desktop/fc.pdf

Fax entry method:  File  Socket

Single file

Multiple files

Socket list

Tel number:

1-714-123-4567

\*\*\*\* Warning: An error occurred while reading an XREF table.  
\*\*\*\* The file has been damaged. This may have been caused  
\*\*\*\* by a problem while converting or transferring

Send fax

Answer call

Take over call

Standby

Stop

Inactive

Press F1 for help



# efax-gtk



File Log Help

Fax to send

/home/testuser/Desktop/fc.pdf

Fax entry method:  File  Socket

Single file

Multiple files

Socket list

Tel number:

1-714-123-4567

\*\*\*\* The file has been damaged. This may have been caused  
\*\*\*\* by a problem while converting or transferring the file.  
\*\*\*\* Ghostscript will attempt to recover the data.

Send fax

Answer call

Take over call

Standby

Stop

Inactive

Press F1 for help

# ANALYSIS OF LINUX MINT 16" (continued)

- After we installed "PyKaraoke" into "Linux Mint 16", we have been able to play karaoke song files (.KAR, .MID, .MIDI).

night

Do they talk about  
a love all in tatters

What do the neighbors know  
About the heart and soul  
The fire down below  
that really matters  
They can never guess in the  
silences

# ANALYSIS OF UBUNTU 14.04"

- "Ubuntu 14.04" provides us with live over-the-air television viewing with a TV tuner inside "Kaffeine" when it is installed inside a "VMware Player" virtual machine inside a "Windows..".

007-1 KABC-DT – Kaffeine

Search:

Channel

- 002-1 KCBS-TV
- 002-2 KCBS-TV
- 005-1 KTLA-TV
- 005-2 Antenna TV
- 005-3 This TV
- 007-1 KABC-DT
- 007-2 LivWell
- 007-3 LWN-S
- 011-1 KTTV
- 011-2 KTTV
- 013-1 KCOP
- 013-2 BOIN

Start  
Playback  
Playlist  
Television

GOOD MORNING AMERICA

SAY GOOD MORNING TO MICHAEL

eng : off : -00:00:00

# ANALYSIS OF UBUNTU 14.04" (continued)

- However, when we installed "Kaffeine" into "Ubuntu 14.04" running inside a real physical computer (Intel i7 and 16 Gigabytes of RAM), "Kaffeine" **failed** to provide us with live over-the-air television viewing.

# ANALYSIS OF UBUNTU 14.04" (continued)

- We had the same failed results with "Ubuntu 13.10, and "Ubuntu 13.04".

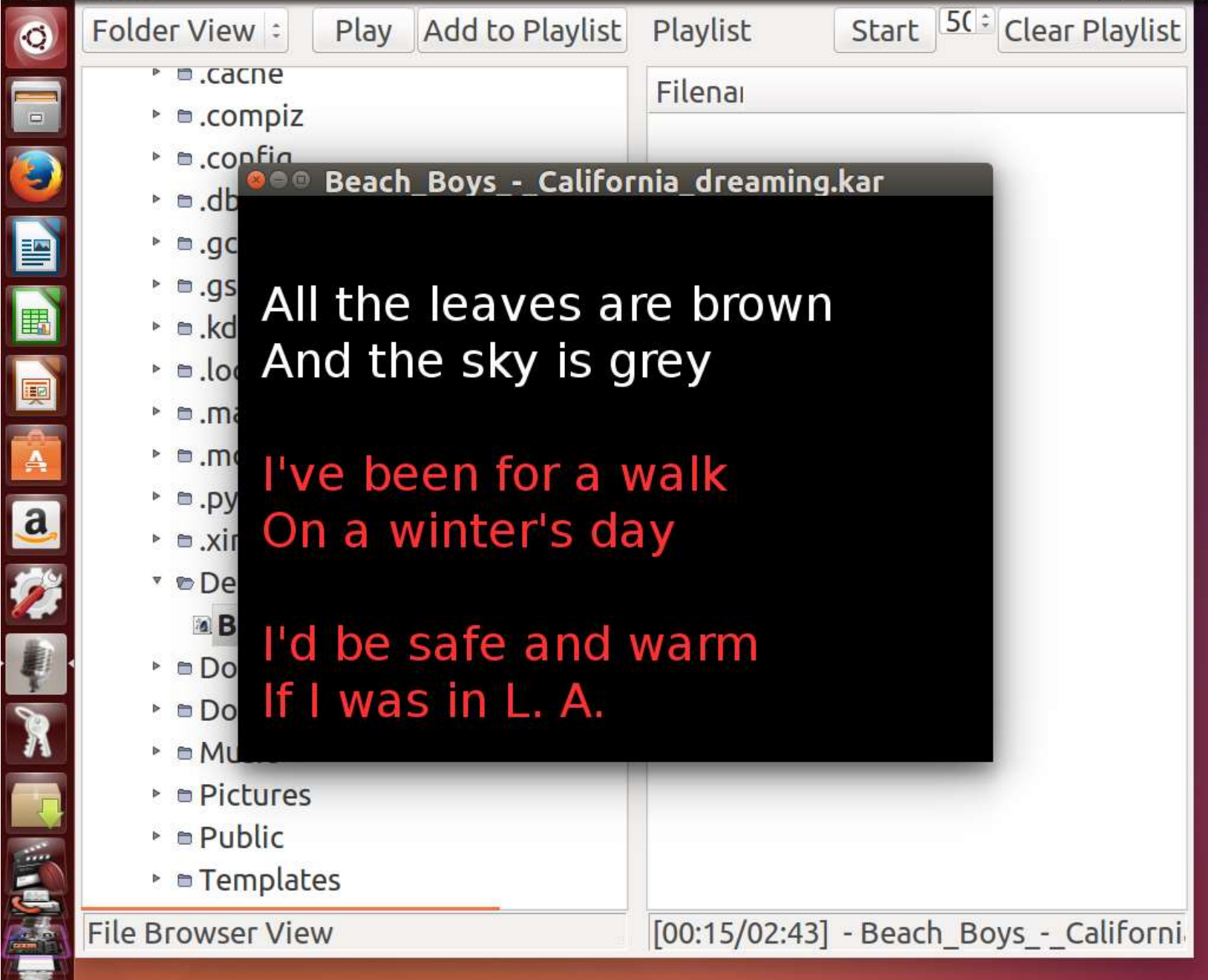
# ANALYSIS OF UBUNTU 14.04" (continued)

- "Ubuntu 14.04" allows us to reliably send and receive analog faxes with the free "efax-gtk" program and a USB analog fax/data modem.



# ANALYSIS OF UBUNTU 14.04" (continued)

- "Ubuntu 14.04" allows us play free Karaoke files (.KAR, .MID, and .MID files with the free "PyKaraoke" program.



Folder View ▾ Play Add to Playlist Playlist Start 50 Clear Playlist

Files and folders:  
▶ .cacne  
▶ .compiz  
▶ .confi  
▶ .db  
▶ .gc  
▶ .gs  
▶ .kd  
▶ .loc  
▶ .ma  
▶ .m  
▶ .py  
▶ .xir  
▼ De  
▶ B  
▶ Do  
▶ Do  
▶ MU  
▶ Pictures  
▶ Public  
▶ Templates

Beach Boys - California dreaming.kar

All the leaves are brown  
And the sky is grey

I've been for a walk  
On a winter's day

I'd be safe and warm  
If I was in L. A.

File Browser View [00:15/02:43] - Beach\_Boys\_-\_Californi

# A HYBRID MINT/UBUNTU CONFIGURATION

- Install "Linux Mint.." into the real host computer. Use it to "Kaffeine" TV and "PyKaraoke".
- Install the free "VMware Player" virtual machine program.
- Run "Ubuntu.." as a virtual machine inside "VMware Player".
- Run "efax-gtk" inside "Ubuntu".

# Real Physical Computer

"Linux Mint 16" O/S

"VMware Player"

"Ubuntu 14.04  
O/S

"efax-gtk"  
for analog  
fax

"Kaffeine" for  
watching live  
OTA TV

"PyKaraoke"  
for playing  
.KAR, .MID,  
and .MIDI  
audio files