Outline

• some bits about me
• a bit of history
• current setup
  – hardware
  – software
  – people
• future
Some Debian bits about me

• running Debian stable as primary OS since 1996
• contributing since 2003
• Debian Developer, holger@debian.org since 2007
  – Debian Edu member, powerpc porter, ftpmaster
  – FAI (fully automatic installation) developer
  – Debian-QA / piuparts contributor
  – founded debian-community.org
• DebConf organizer
  – founded the DebConf video-team in 2005
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- DebConf7: recordings, streaming, camera switching, no DVDs (yet?)
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- DebConf5: recorded, released at DebConf, very exhaustive, DVDs
- DebConf6: recordings, streaming and DVDs
- DebConf7: recordings, streaming, camera switching, no DVDs (yet?)
- DebConf8: recordings, streaming, camera switching, slide grabber, PiP (and DVDs? : )
other activities

- various QA meetings
- FOSDEM (since 2005)
- Debian Edu meetings
- spanish DebConfs^wDudesConfs
- LCA Debian miniconf
- full list at http://wiki.debconf.org/wiki/Videoteam/
creating DVDs with videolink

- written after DebConf5 by Ben Hutchings
- assembles a DVD filesystem from HTML pages and video files
- available in etch, sid & lenny
creating DVDs with videolink

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- available in etch, sid & lenny
- no DVDs from DebConf7 yet
- ffmpeg-debian (in Lenny) has no mpeg encoders (enabled)
  - AAC+MP3 patents are being actively enforced
- ffmpeg-nonfree is not there yet and won't make it into Lenny :(
 Hardware

• first we had none
Hardware

• now we have sponsors!
  – hitflip.de
  – Debian
• we still rely on private hardware a lot
Hardware

- now we have sponsors!
  - hitflip.de, 500 € in time for FOSDEM 08
  - Debian, 2000 € in time for DebConf8
- we still rely on private hardware a lot
AV setup

- 2 cameras on tripods in each room,
- 1 twinpact in each room to grab slides
- 2 speaker mics in Salon del mar, 1 in Microcine
- 2 wireless mics to pass around in each room
- 2 pairs of condenser mics to pick up audience
- 2 audiomixers with 2 separate busses
- speakers and amplifiers
- unused: small audio mixer (one bus)
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- 2 audiomixers with 2 separate busses (one is ours)
- speakers and amplifiers
- unused: small audio mixer (one bus)
Computer setup

Talkroom 1 (Salon del Mar)
- cam1: tape
- cam2: patty
- twinpack1

Talkroom 2 (Microcine)
- cam3: twinpack2
- cam4: tape

- scratchy: capture, dvswitch
- non-switched ethernet (or dedicated bandwidth)
- firewire

- Barney: recording
- stream control machine, located in one of the hacklabs or so
- Mwhite

- Daffy: encoding, streaming
- Lisa: master streaming server
- DC8 network

- Krusty
- Teh internet
Streaming setup on selma
Streaming setup on selma, #2

# setup dvswitch
dvswitch &
sleep 1
xterm -e dvsource-firewire &
dc-start-source firewire:patty/1 &
dc-start-source firewire:patty/0 &
sleep 1
Streaming setup on selma, #3

dvsource-file -l /home/dvswitch/loop-debconf8.dv &
dvsource-file -l
/home/dvswitch/sponsors_loop.dv &
xterm -e "dc-start-sink file:barney" &
xterm -e "dc-start-sink icecast:daffy" &

# last command
icewm-session
DVSwitch

- written for DebConf7 by Ben Hutchings
- Alioth projectname “dvswitch”
- we use the 0.7 branch, there are a few more features in 0.8
- not yet ready for Debian, according to Ben
Icecast2 streaming

- ogg theora and ogg vorbis
- 320x240
- 230 kbps video, 64 kbps audio
- 3 streams: Salon del mar, Microcine, Replays
- internal relay (lisa)
- external relays: 4 in europe, 2 in north america, 1 australia

Postprocessing workflow

- Postprocessing sux badly.
- Especially if done after the event.
- DebConf7 videos were done last week, do I need to say more?
- So we really really really really want to do it here.
Postprocessing workflow

- **Claim**: avoiding the file from being reviewed by others
- **Watch**: use your favorite viewer after mounting the remote filesystem
- **Unclaim**: if you don't have enough time to complete the review
- **Associate**: the recording to an event
- **Link event**: choose between the available list of events
- **Unlink event**: previously linked
- **Recording properties**: add comments, rate, start and end time
- **Delete**: if it is garbage
Postprocessing workflow

- all done in Pentabarf
- dv files end up in the video controller in penta
- in penta: association with an event
- review of dv files from nfs-server
- in penta: rate, start+end time
- automatic encoding
- review of the encoded files
- in penta: again rating
- automated upload and RSS feed
Fully Automatic Infrastructure

- svn://svn.debian.org/svn/debconf-video/package
  - scripts for dvsources and dvsinks
  - scripts for workflow in penta and encoding and uploading and for creating the rss feed
  - configuration files
- svn://svn.debian.org/svn/debconf-video/fai-config
  - machine configuration for integration with the debconf-video package
  - deployed with FAI using softupdates
  - apt-cache show fai-client
DebConf8 statistics

• Haven't counted the exact number of tapes / events yet, approximately 60 events at DebConf8.
• Total amount of Gigabytes of DV files unknown. We had a 1tb RAID and 2x1tb backup disks.
• Exact number of viewers per stream unknown.
DebConf8 statistics

- Haven't counted the exact number of tapes / events yet, approximately 60 events at DebConf8.
- Total amount of Gigabytes of DV files unknown. We had a 1tb RAID and 2x1tb backup disks.
- Exact number of viewers per stream unknown.
  - around 100-200 for Salon del Mar
- We reviewed all .dv files \o/ !!!
- released 55 low quality ogg files (3.6gb), 36 high quality ones (13gb) – not reviewed yet, some need more work.
- no mpeg files yet.
Thanks to the videoteam

- edrz des dererk Q karora tassia amaya anto tincho2 H Womble2 xerakko h01ger
- maxy zer0 Ganneff sgran mhy
- lucas diego melisa german nueces tomas lisandro marcos martin nicolas romanella
- http://wiki.debconf.org/wiki/DebConf8/\Videoteam/Thanks
- If you like(d) our work, please drop a note.
Thank the videoteam

• http://wiki.debconf.org/wiki/DebConf8/ \ Videoteam/Thanks
• Please do ;-)}
Future

- FOSDEM 09
- DebConf9
  /Videoteam
Help

  - improve + print + laminate CheetSheats
- http://wiki.debconf.org/wiki/DebConf8/Videoteam/ToDo
  - note problems with video there
Thank you for your attention!

- Questions? Suggestions? Anything else?