

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



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 <- needs help
- DebConf organizer
 - founded the DebConf video-team in 2005



DebConf Videoteam history



DebConf Videoteam history

- DebConf3: recorded, but never released



DebConf Videoteam history

- DebConf3: recorded, but never released
- DebConf4: nada



DebConf Videoteam history

- DebConf3: recorded, but never released
- DebConf4: nada
- DebConf5: recorded, released at DebConf, very exhaustive, DVDs



DebConf Videoteam history

- DebConf3: recorded, but never released
- DebConf4: nada
- DebConf5: recorded, released at DebConf, very exhaustive, DVDs
- DebConf6: recordings, streaming and DVDs



DebConf Videoteam history

- DebConf3: recorded, but never released
- DebConf4: nada
- DebConf5: recorded, released at DebConf, very exhaustive, DVDs
- DebConf6: recordings, streaming and DVDs
- DebConf7: recordings, streaming, camera switching, no DVDs (yet?)



DebConf Videoteam history

- DebConf3: recorded, but never released
- DebConf4: nada
- 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

- written after DebConf5 by Ben Hutchings 
- assembles a DVD filesystem from HTML pages and video files
- available in etch, sid & lenny
- no DVDs from DebConf7 yet `</hint>`
- 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 twinpack 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)

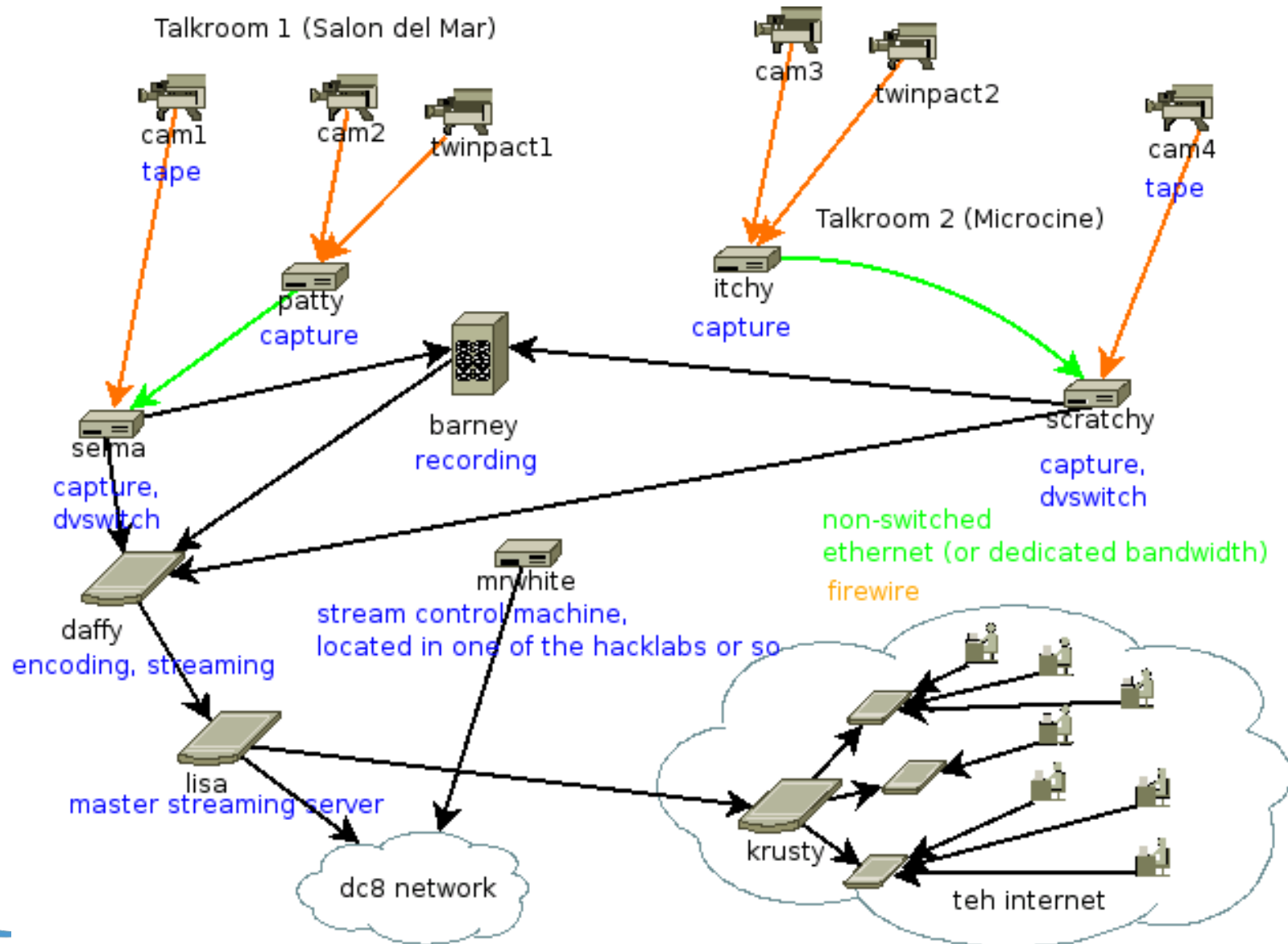


AV setup

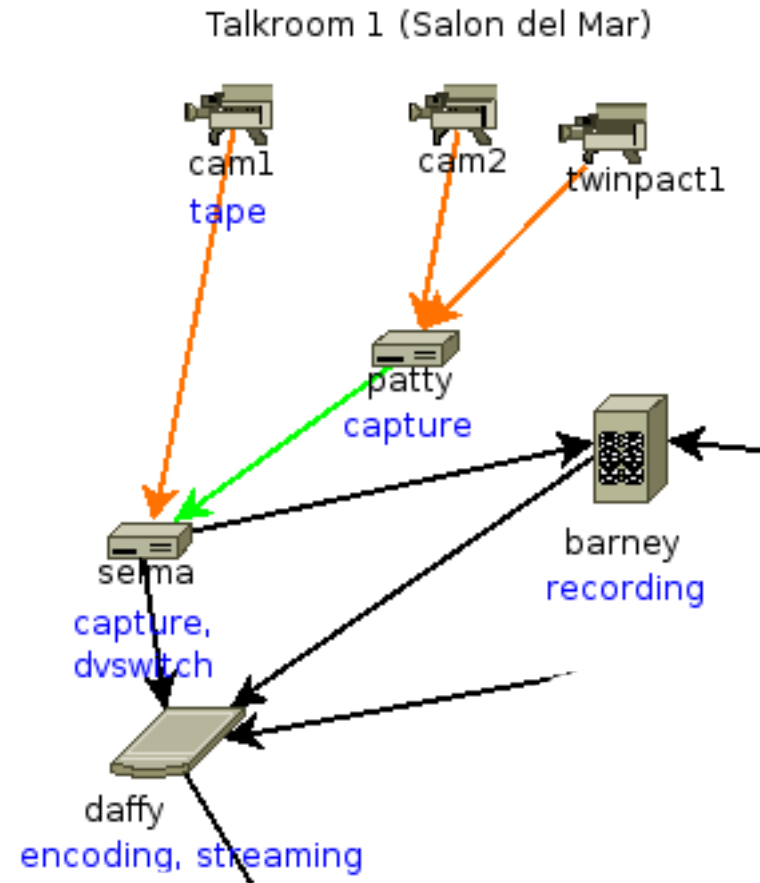
- 2 cameras on tripods in each room,
- 1 twinpack in each room to grab slides
- 2 speaker mics in Salon del mar, 1 in Microcine
- 2 wireless mics to pass around in each room
- 2 pairs of condenser mics to pick up audience
- 2 audiomixers with 2 separate busses (one is ours)
- speakers and amplifiers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



Computer setup



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



Record

Cut

No effect

Pic-in-pic

Apply



1



2



3



4



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
- <http://wiki.debconf.org/wiki/DebConf8/Streams>

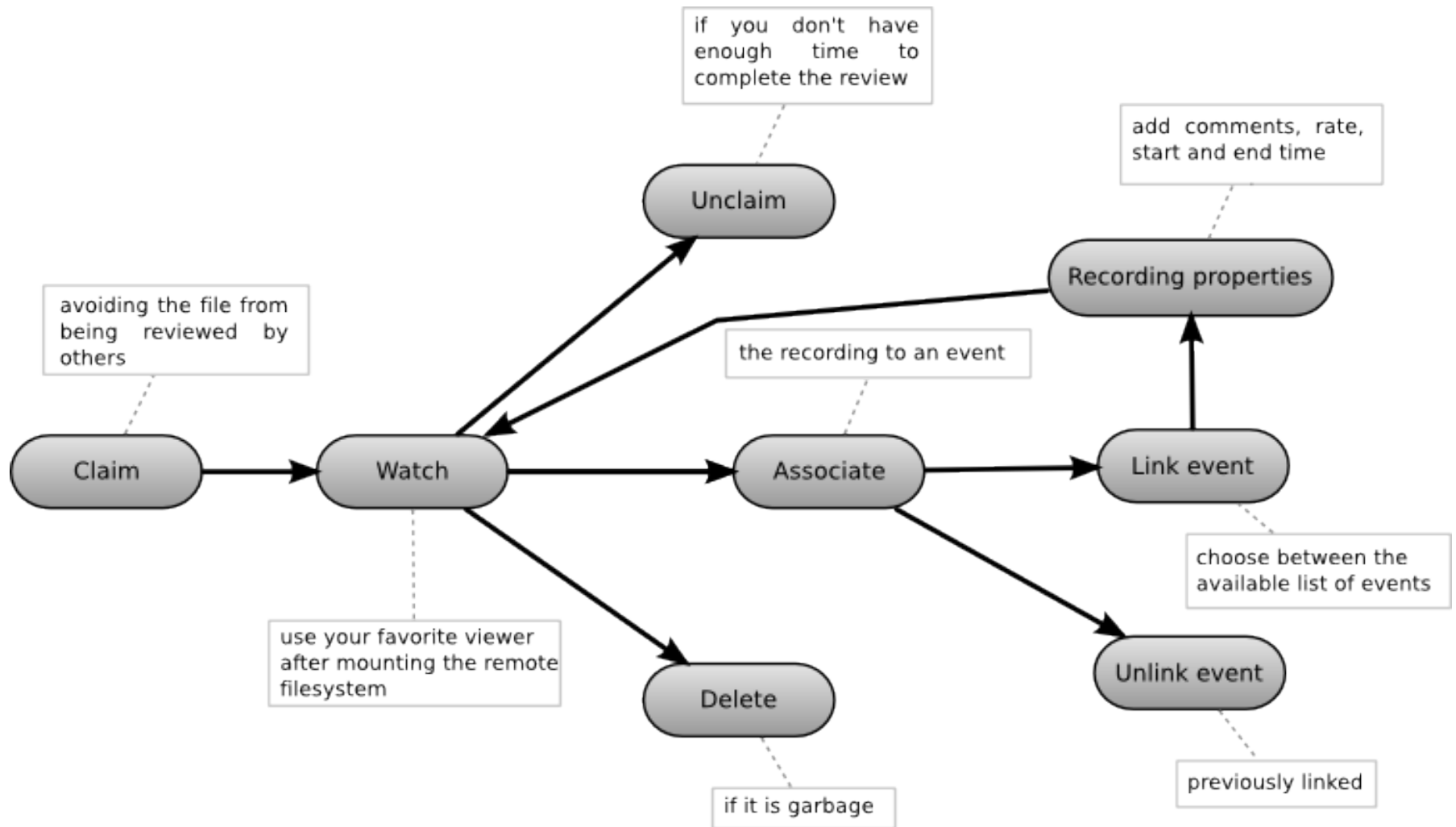


Postprocessing workflow

- 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 want to do it here.



Postprocessing workflow



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.



Thanks to the videoteam

- edrz des dererk Q karora tattia 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](http://wiki.debconf.org/wiki/DebConf8/\ Videoteam/Thanks)
- Please do ;-)



Future

- FOSDEM 09
- DebConf9
- <http://wiki.debconf.org/wiki/DebConf9> \ /Videoteam



Help

- <http://wiki.debconf.org/wiki/DebConf8> \ /Videoteam/Help
 - improve + print + laminate CheetSheets
- <http://wiki.debconf.org/wiki/DebConf8> \ /Videoteam/ToDo
 - note problems with video there
- <http://wiki.debconf.org/wiki/Category> \ :DebConf8/Videoteam



Thank you for your attention!

- Questions ? Suggestions ? Anything else ?

