JEG - hands on session

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These notes are meant for helping out if the screen is not easy enough readable.

blazej pwd: vqegvqeg

Sirannon streaming system

cd sirannon-0.6.0/python

python sirannon.py

Input to the avc-reader is the Annex-B file

chain consisting of avc-reader - avc packetizer - basic-scheduler - RTP transmitter - sink

sink: necessary to close sirannon at the end of the avc stream

filename for avc-reader is $1

for the RTP-transmitter: destination (string): $2

back to commandline

cd ../jeg\_demo

starting the server: sirannon avc\_streamer.cfg sintel\_qp25.264 127.0.0.1:5000

on a different terminal:
 sudo tcpdump -B 20480 -w sintel\_qp25.pcap -s 0 -i lo src 127.0.0.1 and udp port 5000

 same pwd as before: vqegvqeg

start the sirannon server and wait till it finishes, abort tcpump and verify that no packets were lost by the kernel

open the pcap file with wireshark

 tell wireshark that it's an RTP stream

Introduction of errors in the PCAP file

 Open the sirannon GUI again and configure only a AGH - packet loss generator

 Configure the packet loss generator by input-filename $1, output-filename $2, configuration file $3, frame-loss I 4, frame-loss 8, frame-loss B 16 (meaning 4%, 8% and 16% percent for each)

 save this configuration to an xml-file in the jeg-demo folder

Run: sirannon loss1.xml sintel\_qp25.pcap sintel\_qp25\_4816.pcap output\_configuration.cfg

Configure another sirannon XML file with the AGH - config file block and this can take the output\_configuration.cfg with its 0s and 1s as input

h264streamgenerator -r sintel\_qp25\_4816.pcap -b sintel\_qp25\_4816.264 -x sintel\_qp25\_4816.xml

here we generate the HMIX1 file

We need a decoder.cfg file which has a correct setting of the Reference POC gap

ldecod.exe sintel\_qp25.cfg (change pathnames in sintel\_qp25.cfg)