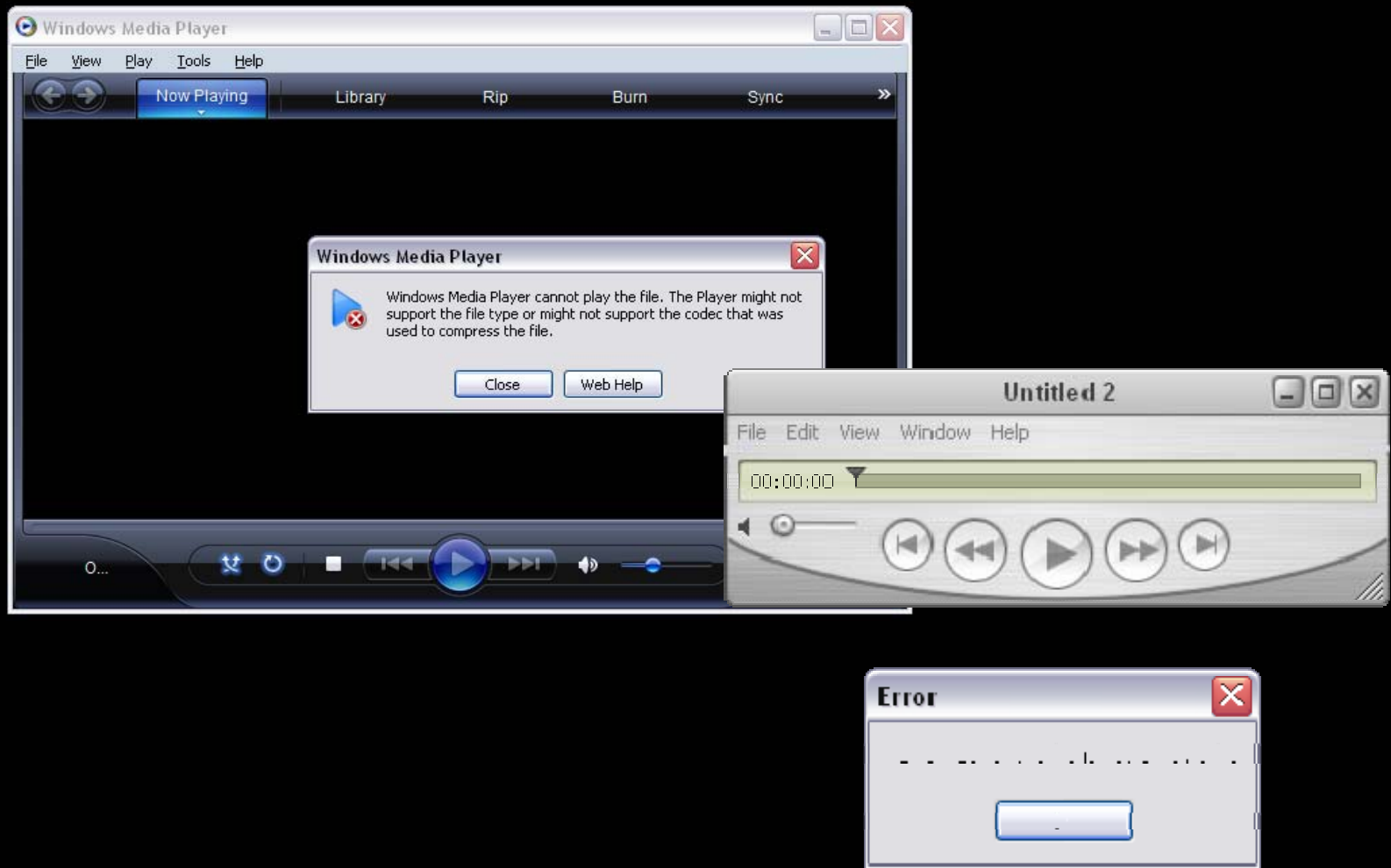




videolan.org

EUROVISION TECHNICAL DEVELOPMENTS
MARCO DEGIORGI@EUROVISION.NET



it doesn't work, again ...

END USER PLAYER



VLC

IN / OUTPUT

FILES

UDP
RTP
UNICAST
MULTICAST
HTTP
FTP
MMS

DVDs
VCD
SVCD
CD AUDIO

DVB cards

V4L
DirectShow

CONTAINERS

MP2
MP3
MP4
ES
PS
TS
3GP

OGG
ASF
QT
AVI
FLV
MKV
OGG
OGM
WAV
AIFF
RAW
FLAC

CODECS

MP1
MP2
MP3
MP4 Part 2
H.263
H.264
MJPEG

AVC
WMV, WMA
VC-1
HuffYUV
Indeo 3
Cinepak, DV
VP5, VP6

Theora
FLAC
Vorbis
REAL
AC3, DTS

ALAC, AMR, MACE
QDM2/QDMC
Speex,
Screamtracker
3/S3M
TTA
WavPack

Play them all !

OPEN
SOURCE
CODE



VLC

1. Free core application & GUI
STANDALONE PLAYER
play, record, transcode
2. Build customized player
MIRO PLAYER
adds on demand P2P access
3. Encode & Stream
LIVE & VOD OVER IP
Uni and Multicasting
SHOUTCAST
Internet Stream Distribution

Customize it !



+

X264

VLC

Stream it !

1. Easy setup

a few clicks in the GUI
a single command line

2. Full H264 implementation

CAVLC/CABAC

Multi-references

Intra: all macroblock types (16x16, 8x8, and 4x4 with all predictions)

Inter P: all partitions (from 16x16 down to 4x4)

Inter B: partitions from 16x16 down to 8x8 (including skip/direct)

Ratecontrol: constant quantizer, single or multipass ABR, optional VBV

Scene cut detection

Adaptive B-frame placement

B-frames as references / arbitrary frame order

8x8 and 4x4 adaptive spatial transform

Lossless mode

Custom quantization matrices

Parallel encoding on multiple CPUs

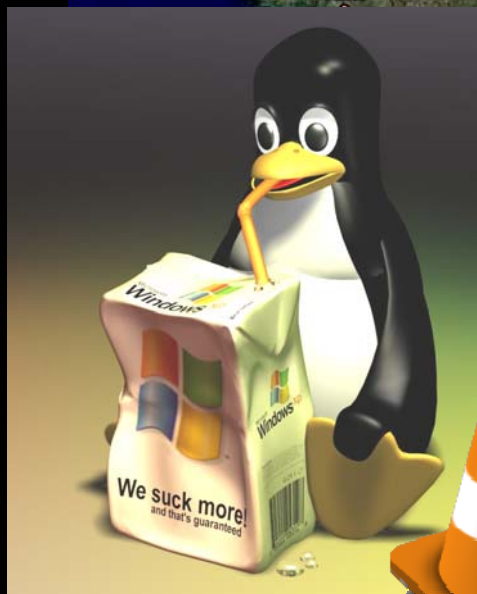
Interlacing

3. Multi threads support

Could be use on bi-quad cores servers

Real Time SD & HD software encoding

and now we get live...



X264

1. **2001-05 VTE & RAI project**
 - Video over Inmarsat/BGAN
 - public internet
2. **Minimized OS & GUI**
 - Capture, encode, stream
 - 100ms delay compression
3. **LINUX based solution**
 - no active/passive modifications possible
 - no extra traffic, no extra processes
 - zero configuration



Thank you !

EUROVISION TECHNICAL DEVELOPMENTS
MARCO DEGIORGI@EUROVISION.NET

MusiPOP

XT RADIO



010011010010100101010101010100010101010100101010101011101010101010010010101100110110011000011000

Downloading of *Concerts* over Satellite

