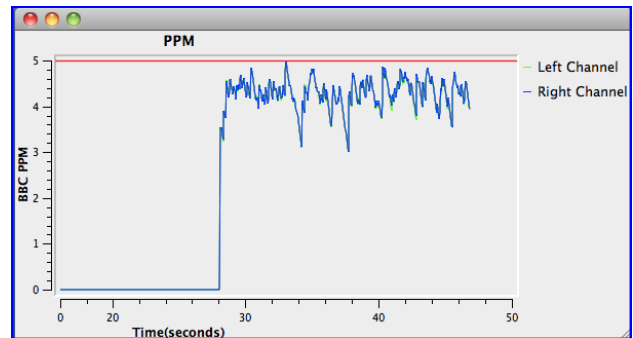
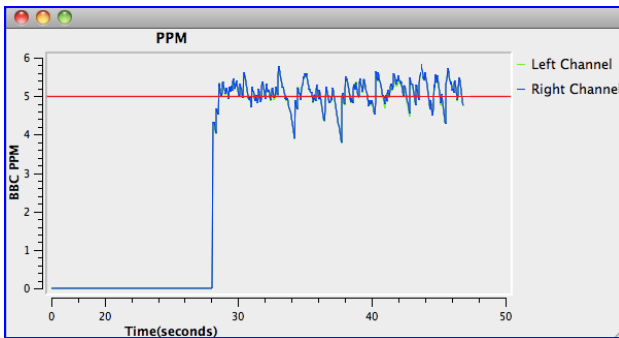


Audio normalisation and loudness compliance tool for media files

The majority of today's broadcast content is being sourced and delivered as file-based media. Consequently, traditional methods of analysis and repair are not only impractical, but also highly inefficient.

Dedicated to simplifying file based media workflows with high quality, easy to use and cost effective tools, **Emotion Systems** have introduced **eFF** an audio normalisation and loudness compliance tool for media files.

eFF ensures that users make the right decisions to resolve audio level problems by efficiently analysing file-based media by precisely modelling analogue Peak Programme Meters (PPMs) and loudness detection parameters.



Before

After

eFF Version 1.65

Source Information
 Set Mode: Manual
 yellow
 Select Source
 /Users/MCp/Desktop/eFF - Files to Test/Archers24Bit.mov

File Information
 File Size: 49.5 Megabytes
 Number Of Channels: 2
 Sample Rate: 48000
 Bytes Per Sample: 3
 Bits Per Sample: 24
 Audio Duration: 180.08 seconds

Processing Information
Summary
 Maximum Loudness: -9.7 LKFS (103.73 s)
 Maximum BBC PPM:
 Channel 1: 8.05 (167.78 s)
 Channel 2: 8.10 (100.87 s)
 Maximum DIN PPM:
 Channel 1: 10.05 (167.78 s)
 Channel 2: 10.34 (100.87 s)
 Maximum Nordic PPM:
 Channel 1: 16.05 (167.78 s)
 Channel 2: 16.34 (100.87 s)
 Maximum EBU PPM:

Destination Information
 Select Destination
 Please choose a filename:
 Archers24Bit
 Process
 Enable Hot Folder
 Settings

Loudness Logs | PPM Logs | Hot Folder Monitor

Parameters
 Logs On
 Show Errors Only
 Save Graphs
 Graph

Logs
Loudness Summary
 Threshold: -18
 Units: LKFS
 Reference Value: 0
 Tolerance: 0
 Maximum Loudness: -9.7

Three Second		Loudness
101.90	-11.7	
101.94	-11.7	
101.98	-11.6	
102.02	-11.4	
102.07	-11.6	
102.11	-11.4	

Fast, accurate and easy to use; eFF enables you to manage critical file-based audio content with total confidence. It is an essential software application for MCR, non-linear video editing and on-line finishing suites. eFF is the perfect tool for any broadcaster and post production facility supplying file-based content media for broadcast delivery.

eFF Specifications and features

- The faster than real-time operation of **eFF** is accurate, easy to use and highly automatable.
- Automatically analyses, detects and fixes audio loudness violations in file-based media using software that conforms with the latest ITU-R BS.1770, BS.1771, and EBU R128 standards.
- Normalisation functionality to increase audio levels.
- Cost effective both in terms of license cost as well as delivering time savings for audio file QC making workflows more cost effective.
- Supports standard file formats including WAV, QuickTime, MOV, AIFF, MPEG and MXF.
- Features user-definable loudness, PPM and tolerance settings that can be stored as profiles for future use.
- The graphical display of loudness and PPM values may be attached to QC report files.
- Quality is maintained as the system eliminates the need for decoding or re-encoding video data within a wrapper so the integrity of original material is maintained.
- Support for Hot folders for easy workflow integration.
- Available for Windows and Mac OSX.



About Emotion Systems

Today broadcast media production is in a state of flux as it evolves from traditional to tapeless workflows. To date no single manufacturer can provide a full range of suitable products to create complete entire solutions leading to the need to connect a variety of components to support the required workflows.

Traditionally for tape based working, third party suppliers would provide simple off-the-shelf solutions in the form of black boxes which would help to tie together larger systems and aid smoother workflows. The lack of such products for the new file-based paradigm is the reasons why **Emotion Systems** is developing new tools like **eFF** to fill the growing need for cost effective file processing components to bridge the inevitable discontinuities in tapeless workflows.



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