

BONES

PlayoutMaster



BONES PlayoutMaster

DPX to File / Video Conversion Tool

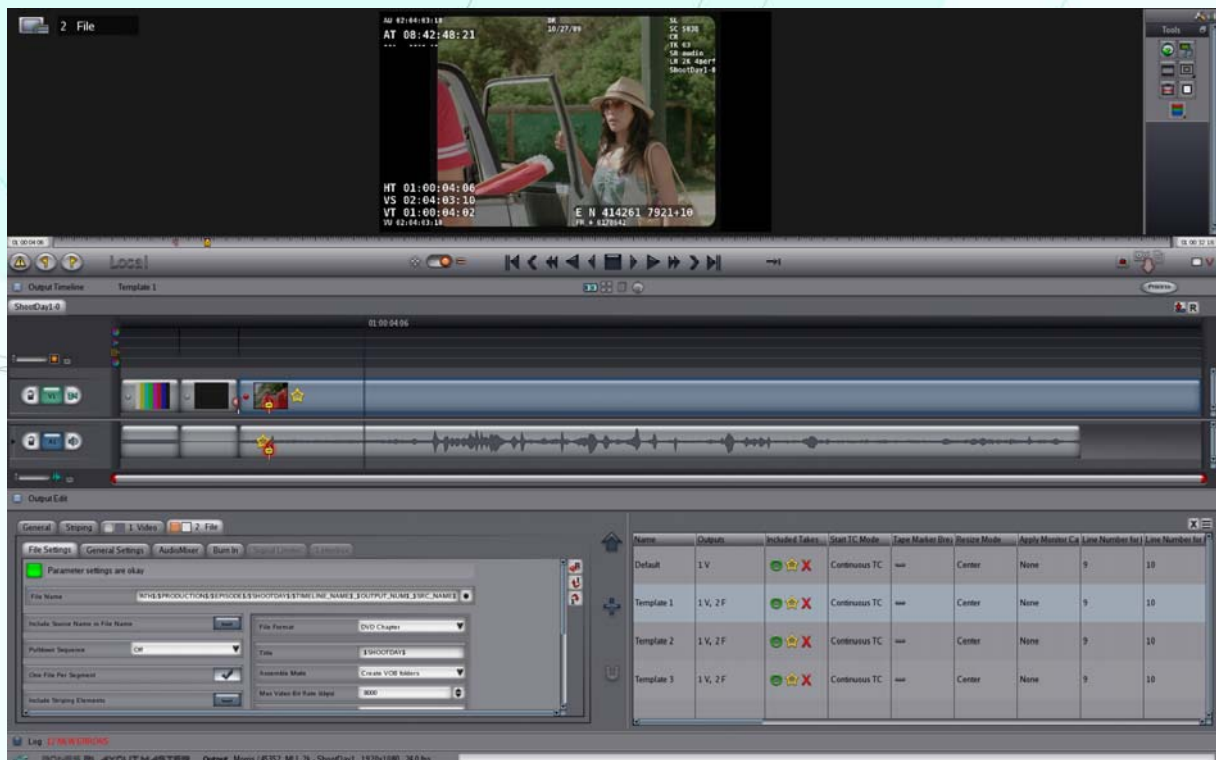
BONES PlayoutMaster is a new software tool from DFT Digital Film Technology that generates file, video and media formats from DPX (Digital Picture Exchange) clips. It is based on the BONES Dailies software platform. DPX files store a great amount of color information and allow for a wide variety of metadata to be stored within each file, which mean DPX file collections can become rather large. DPX files may also not be the preferred file type for a specific project. Depending on the production, facility and project, a large variety of content delivery formats may be required; from SD or HD video to Windows Media, QuickTime, MXF, AVI, and MPEG file formats. BONES PlayoutMaster provides a toolset that allows users to create an array of different file and video output formats BONES PlayoutMaster lets users quickly edit a timeline, perform sound synchronization, and generate and output digital files or real-time SD/HD video.

There are several available options including; image and audio ingest, image processing (color correction, 3D LUT, scaling), secondary color correction and RAID storage configurations.

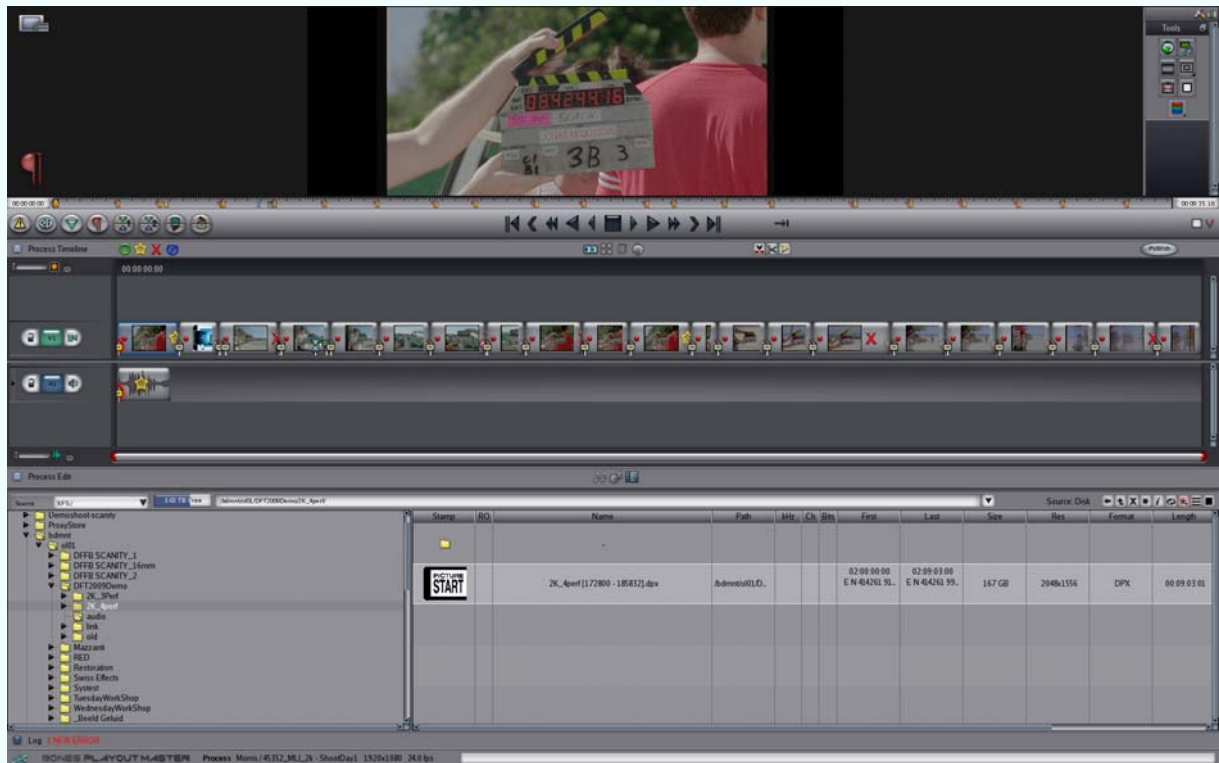
The Linux-based software solution is template driven, which speeds up operation and helps reduce user errors. BONES PlayoutMaster features a user-friendly GUI for online editing, image and audio synchronization, real-time video playout of up to three parallel output channels and rendering to a variety of file and video outputs.

All of these capabilities eliminate the need for external video to data conversion interfaces.

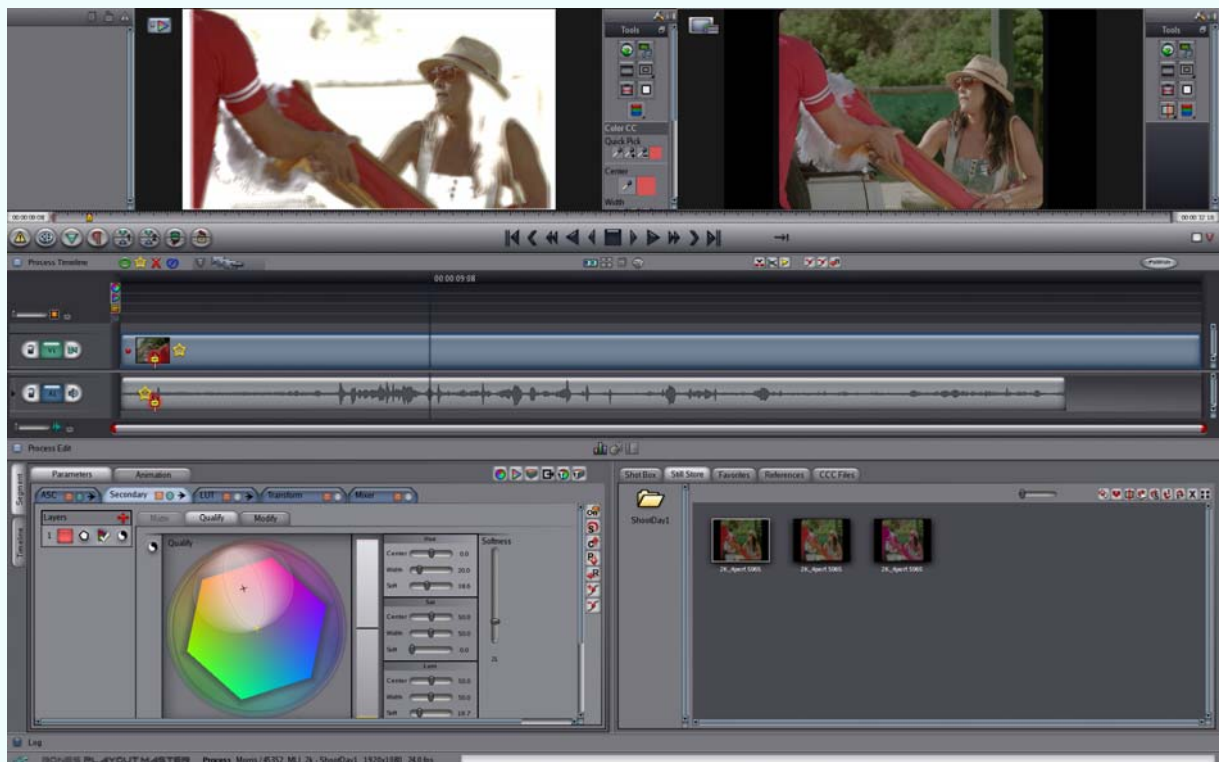
BONES PlayoutMaster can be upgraded to a full BONES Dailies system at any time.



BONES PlayoutMaster –Output page for file and video based media generation



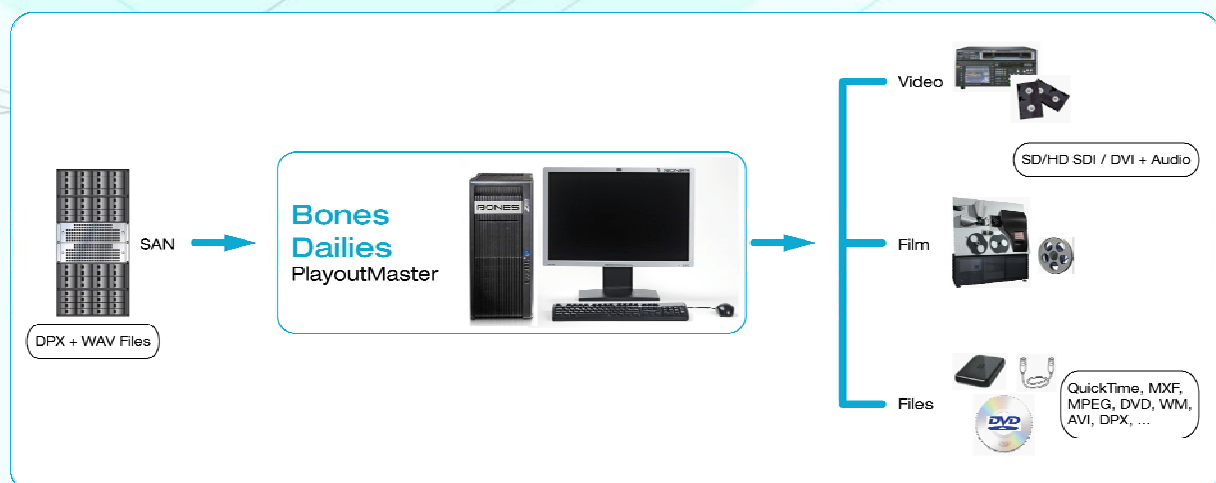
BONES PlayoutMaster – Process page for timeline editing and video / audio synchronization



BONES PlayoutMaster – Optional Image Processing – color correction, 3D LUTs, image transformation, dissolves

Key Features

- Fast and easy to use software tool that converts DPX clips to various video and file output formats Timeline editing (cuts only) with audio / video synchronization
- Real-time internal 2K to HD down conversion or HD to SD down conversion including 2:3 pull-down generation
- Up to 3 parallel video output channels for playout of different versions (graded, raw, HD, SD, burn-ins, clean etc.); max. 2 video outputs can be accomplished with one video I/O card
- Direct, parallel and fast render output for QuickTime, MXF, DNxHD codec, MPEG1, 2, 4, chaptered DVD, WM, AVI and many others
- Real-time character generator for burned in metadata such as TC, KC, logos and bitmaps
- Resolution independent
- Template-driven user interface - speeds up operation and reduces errors
- Optional local RAID storage configurations
- Optional real-time secondary color correction with unlimited number of layers and windows including dissolves and dynamics between keyframes
- Optional image and audio ingest
 - Ingest from DataCines or VTRs
 - Ingest from digital cinematography camera files including; ArriRaw, RedRaw R3D, DPX
- Optional real-time primary color correction, 3D LUTs and image transformation
 - Real-time, non-committed, non-linear primary color correction
 - Supports ASC-CDL for interchange with digital intermediate grading and mastering solutions
 - Supports dissolves and dynamics between keyframes
 - Integrated still-store
 - Real-time pan & scan



Specifications

HARDWARE SPECIFICATIONS

- Workstation

- HP Workstation Z800
- Dual Intel Xeon (Quad core) CPU
- 12 GB RAM
- NVIDIA Quadro FX 5800 graphics card
- 24" HP L2465 LCD monitor
- 2x 146 GB internal SAS disks
- 4x 10/100/1000 Base-T Ethernet ports
- QLOGIC QLE2562 dual Fibre Channel8 adapter including cable
- SUSE Linux Enterprise Server (SLES) V10 workstation installed



- SDTV+HDTV output (DVS Centaurus II PCI-X or PCIe card + software license)*

- TV standards (selectable): supports most common HDTV standards, including 2K DCI standards
- Video outputs: SD+HD SDI outputs for RGB 4:4:4/YUV 4:2:2, 8/10 bit (BNC)
- Dual DVI 2K output for image resolutions of 2048x1744 or 2048x1556
- Up to 16 channels of embedded audio
- Hardware implemented color-space converter for storage in RGB/A format
- VITC and VANC reader and generator
- 3D LUT usable for the output
- Centaurus breakout box for balanced AES/EBU audio and RS422 remote control

- HARDWARE OPTIONS

- Second 24" LCD monitor for dual GUI configurations
- Second SDTV+HDTV output card for up to 3 parallel video outputs
- Tangent Devices CP-200 series or WAVE control panels
- Local RAID or JBOD storage configurations
- 3rd party SAN storage configurations and control panels are supported

* max. 2 parallel video outputs per card



BONES PayoutMaster CP200 Control Panels

SOFTWARE SPECIFICATIONS

- BONES PlayoutMaster: timeline assembly of DPX and audio WAV files and parallel generation of file, video and media formats (GUI pages: Process and Output)
- Supported file output formats:

File Format	Video Codec	Audio Codec
AVI	AVI_MPEG4	AC3, MPEG2, PCM
Quicktime (.mov)	UNCOMPRESSED	AAC, AC3, MPEG2, MP3, PCM
	MPEG1	AAC, AC3, MPEG2, MP3, PCM
	MPEG2	AAC, AC3, MPEG2, MP3, PCM
	MPEG4	AAC, AC3, MPEG2, MP3, PCM
	DNxHD / VC3	AAC, AC3, MPEG2, MP3, PCM
	H261	AAC, AC3, MPEG2, MP3, PCM
	H263	AAC, AC3, MPEG2, MP3, PCM
	H264/MPEG4 part 10 / AVC	AAC, AC3, MPEG2, MP3, PCM
Avid MXF (HD 1920x1080)	DNxHD 36, 115, 120, 175, 185 Mbit	PCM
BWF (WAV)	n/a	Broadcast Wave Format extension for Microsoft WAVE, 16 or 24bit
Kodak Cineon	8, 10, 16bit	n/a
MXF XDCAM HD 422	MPEG2	PCM
MXF XDCAM HD	MPEG2	PCM
MXF XDCAM IMX 50	MPEG2	PCM
MXF MPEG 2	MPEG2	PCM
MPEG 1	MPEG1	MPEG1
MPEG 2	MPEG2	MPEG2
MPEG 4	MPEG4	AAC, AC3, MPEG2, MP3, PCM
MPEG 4	H264	AAC, AC3, MPEG2, MP3, PCM
MP3	n/a	MP3
OGG Theora	Theora Video	Vorbis
FLV	H263	MP3
F4V	H264/MPEG4 part10 / AVC	AAC
TIFF	8, 16 bit	n/a
DPX	8, 10, 16bit	n/a
DVD.ISO	MPEG2 NTSC/PAL	MPEG2
DVD.VOB	MPEG2 NTSC/PAL	MPEG2
BMP	Windows Bitmap	n/a
J2K	JPEG 2000	n/a
J2P	JPEG 2000	n/a
PNG	Portable Network Graphics	n/a
PGM ASCII	Portable Graymap	n/a
PGM binary	Portable Graymap	n/a
PPM ASCII	Portable PixMap	n/a
PPM binary	Portable PixMap	n/a

SOFTWARE OPTIONS

- Optional image/audio ingest software license
- Optional real-time processing (primary color correction, LUTs, image translation software license)
- Optional secondary color correction software license

Please consult your DFT Digital Film Technology sales representative for further details. Technical specifications are subject to change without notice.

Unparalleled Engineering and Quality

The DFT Digital Film Technology engineering, research and development, sales and support team is known for their excellence in technology, design, quality, and customer service with products such as the Spirit DataCine® and Scanner family, Shadow telecine, Bones, Bones Dailies and Bones PlayoutMaster software solutions, Scream Plus grain manager, as well as the LUTher color space converter.

Technical Support Services & Training

The DFT Digital Film Technology Technical Support Services & Training team offers complete service solutions that enhance your return on DFT products and global system solutions.

Advanced training and proactive support reduce down time, and keep your equipment and staff performing at optimum productivity.

The pre-packaged suite of DFT Services provide support throughout the entire process:

- Commissioning support
- On-site repair and maintenance services
- Hotline 24 hours a day, 7 days a week
- Comprehensive software and hardware support
- Advanced exchange hardware support
- Hands-on training classes

The worldwide, experienced DFT Digital Film Technology Technical Support Services & Training experts can assist you with customized solutions.

For more information please contact your authorized DFT representative or visit us at www.dft-film.com.

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