Jaleo Octane 2.7 Release Notes

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I. OVERVIEW

We are proud to present to you: our newest Jaleo software, designed to use the power of the SGI Octane machine to its fullest: welcome to Jaleo for Octane 2.7!

The update documentation for this version of Jaleo consists of:

- These Release Notes;
- The Jaleo Octane 2.7 Update Manual;
- The Jaleo for Octane 2.7 Installation and Setup Guide.

These three documents can be accessed in electronic format as well, in the form of PDF-files, residing in the ‘docs’ directory of the Jaleo for Octane distribution CD-ROM.

The release notes contain the following information:

- New Features in this Jaleo for Octane software;
- Required Hard- and Software;
- How to access the documentation.

PLEASE READ THE RELEASE NOTES CAREFULLY.

II. NEW FEATURES

RealTime Effects and Effects Editing

JaleOctane delivers real time effects with multiple streams of uncompressed video on the desktop, without special hardware. Sophisticated chroma keying, including color spill suppression, in real time, is now possible, as well as luminance and external keys complete with shadows. Jaleo for Octane also features color correction in various forms, including color vector re-mapping, in real time. A 3D DVE, with deformations and wave displacement mapping, performs in real time as well. So do wipes, and dissolves.

Combining multiple real time effects - using Jaleo's flexible editing model that integrates horizontal and vertical editing - is possible with evaluation of these combined effects remaining in real time.

Large editions with multiple effects, like keys consisting of multiple layers, color corrected, and connected by real time transitions, can be played out in real time, immediately, without any rendering.

An improved PickEditor greatly facilitates setup of keying, making the keyer truly easy and very fast to use.

Enhanced NLE Editing Features

A set of features designed to make editing of long sequences much faster and easier. Arrangement over time can now be accomplished with the same simple operations known from standard NLE systems, without giving up the flexibility of Jaleo's multi-layer environment.

The reel now provides so called "global editing features" that allow to perform operations like Split, Cut, Copy, Lift, Overwrite, Insert, 3/4 point edits, Append&Cut over all layers, using the Active Monitor or the Edit Marks. Material selected for loading in either Loader or Gallery (or a Flipbook) can now also be pre-trimmed in the preview monitor, and directly placed into the time-line, using 3/4 point edits, Overwrite or Append&Cut operations.

Operation style and keyboard shortcuts closely resemble standard NLE systems, so they are easy to use for an experienced editor. All global editing functions provide unlimited UNDO and direct keyboard shortcuts. There are also new quick access functions for positioning of the Edit Marks, providing highly intuitive editing and navigating.

New Audio Subsystem

Jaleo 2.7 features a completely new audio subsystem. This new audio subsystem provides support for the ADAT 8-channel audio hardware available on the SGI Octane, with extensive functions of an unlimited number of virtual audio tracks routed to 8 internal audio buses. Recording of up to 8 tracks at a time is supported.

The new audio subsystem also delivers strongly improved audio/video synchronisation. It can be used perfectly in conjunction with external digital audio mixers like for example a Yamaha O3D.

DVE-3D Improvements

The hardware accelerated non-real time 3D DVE has received some improvements, like Motion Blur support, improved Anti-aliasing, and Filed Flicker handling. Arbitrary large images can be handled now, allowing for example for panning over extensive back-grounds.

Faster RotoPaint

RotoPaint, Jaleo's vector oriented paint system works faster now by making extensive use of caching. Response to pressure has been improved with all brushes. New Paint features include a "magic wand" style tool for shape generation, and a vector fill function.

3:2 Pulldown Support

In the Reel, it is now possible to remove or add 3:2 pulldown from or to sequences; this is to be used in conjunction with sequences created from cine material.

Drop Frame Support

Drop frame timecode is now fully supported in both the editing and real time video IO applications.

New RtVideo

RtVideo, Jaleo's capture and playout tool, presents itself with a completely redesigned appearance and a largely extended functionality. Also, the user interface allows much faster and easier operation now.
Other highlights include the ability to playout or capture job lists or job list segments with continuous sections as single edits, greatly improving performance, especially on backup/ restore jobs.

Other Improvements

All storage is now done on standard XFS filesystems, allowing for sharing of projects over the network, and usage of standard desktop tools for administration.

Motion tracking for a wide variety of effects, including RotoPaint strokes.

"Live" Project switching.

Improved group management.

III. REQUIRED HARDWARE AND SOFTWARE

III.1 Hardware Requirements

Jaleo Octane 2.7 requires the following hardware:

- SGI Octane workstation with two 195 MHz processors and MXI graphics;
- 256 MB RAM (minimum);
- Octane Digital Video XIO board;
- MSCSI multiple SCSI XIO board;
- A suitable disk array for real time performance;
- A VLAN Transmitter/Receiver, for frame accurate VTR control;
- optionally, a graphical Tablet, like a Wacom tablet;

and, although this is not hardware:

- IRIX 6.4 Operating System with the September 1997 Recommended Patch Set.

Other configurations have not been tested – most likely they will permit partial functionality of the software. For real time effects, the most critical resource is the CPU speed. Models with two 175 MHz CPUs will most likely permit functioning of a part of the real time effects only.

Smaller graphics than MXI may be applicable, but the real time DVE most likely will not work.

We strongly recommend to use no other configuration than specified above. In any case, we can not take responsibility for the proper operation of this Jaleo Octane 2.7 version on any other platform. *Also, other configurations will not be supported by CIC.*

III.2 Required Software

Jaleo Octane requires the following software components:

- IRIX 6.4: this comes in the form of two CD's:
  IRIX 6.4 for Origin, Onyx2 and Octane; SGI part no. 812-0616-002, 02/97, and
  IRIX 6.4 Applications, February 1997, SGI part no. 812-0617-002, 02/97.

- Digital Media software, in the form of one CD:
  Digital Media 3.0, SGI part no. 814-622-001, 04/97
  This software includes SGI patch 1765, which is needed.

- ONLY if required: NFS software, in the form of one CD:
  ONC3/NFS Version 2 for IRIX 6.2/6.3/6.4, SGI part no. 812-0305-009, 02/97

- SGI patch 2105 if you want to do a installation over a network.
  This patch will enable NFS to show ISO9660 CDROM content over NFS.
  You will find this patch on the Jaleo for Octane distribution CD as ptch2105.tar .

- The Silicon Graphics Recommended Patch Set of September 97 for IRIX 6.3 and 6.4 (IRIX 6.3 and 6.4 Recommended/Required Patches September 1997 - SGI part no. 812-0688-006, 09/97).
  Since this CDROM will be very hard to get, and since this patch set has been discontinued as being available from the SGI web site, we included part of it (the patches needed for the IRIX 6.4 for Octane installation) on the Jaleo for Octane distribution CD.

There are newer patch sets for Octane available from SGI; newer Octane machines come with newer operating system patches pre-installed. However, other patch sets have not been tested. CIC will only support machines with the full recommended patch set 9/97 installed, with the recommended installation procedure followed.

IV. How to Access the Documentation

1. The Release Notes, the User Manual Update, and the Installation and Setup Guide will probably have reached you in printed format.
2. These three documents can be accessed in electronic format as well, in the form of PDF-files, residing in the ‘docs’ directory of the Jaleo for Octane distribution CD-ROM.
3. Since this distribution CD-ROM is an ISO9660 CD-ROM, it can be mounted on most computers, be it PC’s, Mac’s or UNIX machines. After mounting the CD-ROM, open the directory (folder) named ‘docs’. Open any of the PDF files by double-clicking the file; if the Adobe Acrobat Reader is installed, it will open the file.
4. If the Adobe Acrobat Reader is not installed, you can get it for free from Adobe’s website (www.adobe.com), for almost any platform. Adobe Acrobat Reader should be version 2.1 or newer.
5. The easiest way to enter the Jaleo for Octane 2.7 documentation is:

- for the Release Notes: open the file: 27relnot.pdf ;

- for the User Manual Update: open the Table-of-Contents file: 27updtoc.pdf ; after this, access the main manual through clicking on the entries of this TOC: hot links will bring you immediately to the subject within the User Manual Update;

- for the Installation and Setup Guide: open the Table-of-Contents file: 27instoc.pdf ; after this, access the main manual through clicking on the entries of this TOC: hot links will bring you immediately to the subject within the Installation and Setup Guide;

6. From within the reader you can read the information, but you can also search it, or print it.
7. After the Jaleo for Octane software has been installed on your Octane workstation, you can access all of the previously mentioned Jaleo for Octane documentation, plus *all* of the documentation on previous releases, through the Toolchest. Once you are logged in as the Jaleo user, go Toolchest -> JALEO DOCS. From there choose the documentation you want, and the Acrobat Reader software will open the requested files.

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