
Subject: Fairlight info

Posted by [uptown jimmy](#) on Sun, 19 Nov 2006 18:38:10 GMT

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or full song file doesn't represent a pure, simple set
of

>>>>>>>>> content like a sample of a sine wave would - there's a whole
>>>>>>>>> world of harmonic structure in each sample of a song file, and
>>>>>>>>> I think (although I'll admit - I can't "prove") that there is
>>>>>>>>> plenty of room for some variables between the first bit & the
>>&g

Subject: Re: Fairlight info

Posted by [Martin Harrington](#) on Mon, 20 Nov 2006 05:07:57 GMT

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/>

>>>>>>propose in general

>>>>>>digital audio discussions, white papers, etc.

>>>>>>

>>>>>>What ID ended up doing with Paris (at least from what I gather per
Chuck's

>>>>>>

>>>>>>findings - so correct me if I'm missing part of the equation Chuck),

>>>>>>is drop the track gain by 20dB or so, then added it back at the master

>>>

>>>>>>buss

>>>>>>

>>>>>>to create the effect of headroom (probably

>>>>>>because the master buss is really summing on the card, and they have

>>more

>>>>>>

>>>>>>headroom there than on the tracks

>>>>>>where native plugins might be used). I don't know if Paris passed 32-bit

>>>>>>

>>>>>>float files to the EDS card, but sort of

>>>>>>doubt it. I think Chuck has clarified this at one point, but don't

>recall

>>>>>>

>>>>>>the answer.

>>>>>>

Subject: Re: Fairlight info

Posted by [DJ](#) on Mon, 20 Nov 2006 05:25:42 GMT

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gt;>>
>>>>>>>"rough edges" in the math by increasing the bit depth to accomodate
>>>
>>>>>>>normal
>>>>>>>
>>>>>>>summing required for mixing audio.
>>>>>>>
>>>>>>>So with Lynn's unity gain summing test (A files on the CD I believe),
>>>>> DAWs
>>>>>>>
>>>>>>>were never asked to sum beyond 24-bits,
>>>>>>>at least not on the upper end of the dynamic range, so everything
>that
>>>>>
>>>>>>>could
>>>>>>>
>>>>>>>represent 24-bits accurately would cancel. The only ones
>>>>>>>that didn't were ones that had a different bit depth and/or gain

>>>>>>>structure
>>>>>>>
>>>>>>>whether hybrid or native
>>>>>>>(e.g. Paris' subtracting 20dB from tracks and adding it to the buss).
>>>>> In
>>>>>>>
>>>>>>>this case, PTHD cancelled (when I tested it) with
>>>>>>>Nuendo, Samplitude, Logic, etc because the impact of the 48-bit fixed
>>>>> vs.
>>>>>>>
>>>>>>>32-bit float wasn't a factor.
>>>>>>>
>>>>>>>When trying other tests, even when adding and subtracting gain, Nuendo,
>>>>>>>
>>>>>>>Sequoia and Sonar cancel - both audibly and
>>>>>>>visually at inaudible levels, which only proves that one isn't making
>>>>> an
>>>>>>>
>>>>>>>error when calculating basic gain. Since a dB is well defined,
>>>>>>>and the ma
