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