Subject: Solving the clocking issues between two DAWs
Posted by Deej [5] on Sun, 03 Aug 2008 02:41:22 GMT
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In another post to Mike Audet I was jabbering on about how I thought the most powerful DAW scenarion I ever used was when I was running Cubase lightpiped into Paris but that the clocking issues with a 4 x MEC setup were a show stopper.

I think I know what would solve this.....as follows:

Paris ADAT sync out to an RME HDSP 9652 or Creamware SyncPlate to lock up the two DAWs.

Set up Paris to interface on a 1:1 basis with the ADAT I/O on an insert on each track, therefore creating a digital loop in and out of each Paris channel.

Route the 8 x ADAT lightpipe outputs of the Paris ADAT module to the ADAT inputs of an RME ADI-192DD. Set the ADI-192DD to upsample these to 88.2 and output them to the inputs of another ADI-192DD at 88.2.

Down sample the outputs of the second ADI-192DD to 44.1 and return them to the ADAT lightpipe inputs of native DAW. then return the outputs of the native DAW to a Paris ADAT input to complete the loop.

Now do the same thing with the Paris ADAT outputs on as many other MECs as you have.

When the RME ADI-`192 DD is synced to the same master clock as the gear that is feeding, it will decouple the original clock sources that are being fed to it via ADAT, resynch them and then return a fully resynchronized digital stream that is clocked to the master clock to the host (Paris) DAW. I think this would "theoretically" solve the trainwreck that happens when multiple MECS that are subject to clocking errors due to the inherent delay between the interfaces are being interfaced with a native DAW.

The ADI-192DD's cost about $1750.00 each so for every 8 x Paris ADAT channels, you'd be spending $3500.00, but I'll bet you that you could reliably sync a 8 x MECs and accomplish a digital feed of 128 tracks to a native DAW this way without a trainwreck.

If this didn't work, I'll bet if you added another pair of ADI-192DD's to uncouple and reclock the outgoind ADAT signal back into Paris, it would work. Of course, now we're talking about $7,000.00 per every 8 x channels, but at least you'd have reliable sync.

OK.....now I;'m off to buy a lotto ticket.

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