
Subject: Big Ben and DAC1

Posted by [Wayne Carson](#) on Wed, 11 Jul 2007 18:50:56 GMT

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ing you from spending too much money. Just

>compare the cost of a TDM plugin to a native version - same plugin - Waves,
>UAD, etc. Then add not only the cost of an Accel card, I/O, but also the
>computer, peripherals, conversion add ons that aren't included in PT, etc.

>

>When doing price comparisons I've never spec'd a PT rig under about \$12k
>that equaled what I do with my \$1700 Core 2, RME interfaces and Nuendo.

>

>If you are tracking 40+ live tracks, then yes, native's latency may become
a

>disadvantage depending on what you need to monitor. A PT rig will give
you

>near zero latency monitoring, but much the same can be done with RME
>totalmix, Cuemix etc, though not as elegantly for sure.

>

>However, for production, scoring, editing, sound design, and many mixing
>scenarios, etc - it's hard to justify the extra cost for PT HD per plugin,
>or per track. It is significantly higher than native, easily.

>

>Btw - you should check out the track count mix Brian posted on the Nuendo
>forum recently

>([http://forum.nuendo.com/phpbb2/viewtopic.php?t=13740&pos tdays=0&postorder=a](http://forum.nuendo.com/phpbb2/viewtopic.php?t=13740&pos tdays=0&postorder=a sc&start=300)
>sc&start=300).

>

>I really doubt you could come close to matching it with PTHD for the cost.

>

>Regards,

>Dedric

>

>On 9/7/07 4:59 PM, in article 46e1d7ca\$1@linux, "LaMont"

><jjdpro@ameritech.net> wrote:

>

>>

>> Good points Thad,

>>

>> I guess the point of view(s)from the so called "High-End" is that we've
been

>> sold some hardware updates with the promise of vastly superior performance
>> results.

>>

>> We've been told we just wait until we get an 64 bit OS to go along with
yur

>> new 64 bit cpu and those new video cards. Then , you guys will have vastly

>> superior performance greater than TDM.

>>
>> Well, again, we've been dupped, hood winked.. Bamboozed :)
>>
>> Truth is : The average Native Power DAW user has spent the equivalent to
an
>> Pro Tools HD setup. AND, the funny thing is, this kind of user will keep
>> on c

Subject: Re: Big Ben and DAC1
Posted by [Gantt Kushner](#) on Wed, 11 Jul 2007 19:09:47 GMT
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00.00 bucks or less..instant
>> DAW..
>>
>> Another source of frustration from the so called high-end, is again the
hype
>> around so called hardware devices that's supposed to free up cpu resources.ie.
>> UAD.. To this day I have purchased a single UAD Card due to the fact that
it
>> does not free up any resources , but rather adds overhead. Read: Big
Dongle.
>> As well as the Tc-powercore..
>>
>> God Bless Steigberg Cakewalk ,& Samplitude for re-writing their code
from
>> scratch to take advantage of the Win 2000/XP platform. With their work,
>> native DAW work would still be in the slow, third world midi-based land
of
>> Emagic and MOTU..
>>
>> So, what do we do..Do we continue to invest in Native rigs like BrianT(4-dual
>> core) Opteron(Do the Math).. Scary.. Now, do you realize that a Pro
Tools
>> HD 1accel cost under 5k..Another 16 hundred for i/o..Boom your into no
excuse
>> land. HD2 accel..street with 192 I/O around \$9600.00.. 128 tracks..with
>> ridiculous amount of plugin power..End of story..
>>
>> Oh yeah. You can run the above protool rigs on an G4-500-700,800.?????
>>
>>
>> "TCB" <nobody@ishere.com> wrote:
>>>
>>> Well, LaMont, I'll go back to my tried and true response. Native users
really
>>> want the power of [Pro Tools HD/SSL 9k/fill in blank] natively. Well,

I
>> really
>>> want to bang Scarlett Johansson but all the wanting it in the world won't
>>> make it so.
>>>
>>> Don't take this too personally but I get a little sick of the 'power
users'
>>> simultaneously turning their noses up at the 'bedroom studio' market
segment
>>> while at the same time wanting everything in native land to be cheap,
super
>>> powerful, and easy to use. If the crap that us 'bedroom' guys use can't
>> get
>>> it done, well since you're so power user go off and spend a few million
>> on
>>> a Neve desk and a boatload of fancy hardware. Good on ya. It also hacks
>> me
>>> off that the 'bedroom studio' computer geeks like me spent nearly a decade
>>> getting our noses bloody and doing the ditch digging to help get nativelyland
>>> working only to be told that we don't know what the hell we're talking
about.
>>>
>>>
>>> Just sayin'
>>>
>>> TCB
>>>
>>> "LaMont" <jjdpro@gmail.com> wrote:
>>>>
>>>> Thad, you are talkign about 2 different market segments. The 'Bedroom'
>> type
>>>> who 48 tracks i

Subject: Re: Big Ben and DAC1
Posted by [BradLyons](#) on Wed, 11 Jul 2007 20:43:26 GMT
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>>>> Truth is : The average Native Power DAW user has spent the equivalent
to
>> an
>>>> Pro Tools HD setup. AND, the funny thing is, this kind of user will
keep
>>>> on chasing that elusive "Native" faster Than Pro Tools Rig" not realizing
>>>> that he or she has spent "WAY" more say over 15k in a native solution.
>>>>
>>>> That's the frustration: And as James M has stated on many occasions,
>>>> they(DAW
>>>> manufacturing companies) only really care about is the Bed Room user.
>> with
>>>> products 8 & 2 channels channels at a time with chessy at best on board
>>>> pre-amps.
>>>>
>>>> Surprisingly: The Computer makers (DELL, Apple, HP, Gateway, etc) have
>> been
>>>> great to our community. Today we can purchase a very fast dual-core
>>>> intel/AMD
>>>> for \$500.00 bucks...then add a nother drive \$100.00 bucks or less..instant
>>>> DAW..
>>>>
>>>> Another source of frustration from the so called high-end, is again the
>> hype
>>>> around so called hardware devices that's supposed to free up cpu
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>>>> "TCB" <nobody@ishere.

Subject: Re: Big Ben and DAC1
Posted by [Bill L](#) on Thu, 12 Jul 2007 02:41:54 GMT
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ore)
--

Martin Harrington
Lend An Ear Sound
Sydney, Australia
0414 913 247That;s what I'm running LaMont.
Nuendo 3 and PT M-Powered 7.3.1 with a 400 GB System drive and 2 400 Gb
USB/Fire wire drives for data, 1 for audio & 1 for Video--

Martin Harrington
Lend An Ear Sound
Sydney, Australia
0414 913 247If I bought one of these, I would need it to do the following:

Provide me 24 AD/DA converters for tracking and interfacing outboard gear at
mixdown while allowing the summing of ADAT inputs from my 3 x RME HDSP
9652's plus an additional 8 x stereo AES I/O for interfacing my digital
outboard gear and Mytek stereo AD/DA's
.....so I would need simultaneous access at mixdown to:

24 analog I/O

48 ADAT I/O (I really would only need the ADAT inputs for input streaming to sum in the DM2000.

8 x AES I/O

80 total I/O

Is it possible to configure a DM 2000 like this? Do I even need the RME cards...IOW....can the DM2000 function as an audio interface like the Tascam DM4800 does?

I'm seriously entertaining the idea of getting a large digital mixer. If I had something like the DM2000, I could lose all sorts of stuff, like my Furman HDS-16 system, a digital patchbay, a Houston controller, a Multiface PCI system, two RME ADI8-DS units and I could also sacrifice a few outboard preamps if the DM2000's pres are as good as I hear and the AD/DA converters are good as well.

How would I spec something like this out?

Dave????.....anyone???

Thanks,

DeejHi DJ,

DJ wrote:

> OK.....so Vista sucks right now.

>

Yes

> My question is, I guess, is there a platform right now that will allow me to

> run my 4 x UAD-1 cards and 3 x RME cards on a dual socket quad core system

> with more than 2G of RAM?

>

No. You can sort of on a MAC but will be way more expensive. Nothing to do with it being a Mac either. Your talking about buying all new PCI-e versions of all your hardware and then buying a new PCI-e to PCI-e expansion chassis to put the stuff in. I have yet to see any of the SBS or Magma PCI to PCI-e chassis work reliably. The best PCI-e to PCI expansion chassis I've used is by Cyclone.

http://www.cyclone.com/products/pci_express_expansion_system_s.php

> Steinberg doesn't really have their apps optimized for 64 bit or dual socket

> quad core CPU's on windows or OSX, right?

>

They work fine on up to 4 CPU. past that they tend to scale weird. The only program I've seen scale well to 8 cores is Reaper. On a MAC programs scale no better or worse than on PC. As long as all the plugins

Subject: Re: Big Ben and DAC1
Posted by [DJ](#) on Thu, 12 Jul 2007 03:59:22 GMT
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audio.com>

www.adkproaudio.com <<http://www.adkproaudio.com/>>

(859) 635-5762Hi Lamont,

The vast majority of people that make a living using Nuendo, Cubase or another app for that matter do not upgrade their systems that often.

The vast majority of people who waste bandwidth on Steinies, Cakewalk's and even DUC are at best enthusiasts on par with DIY gamer kids.

But thats mainly the companies fault for not managing their forums better.

Chris

LaMont wrote:

> Hey Man,

> look, ask those guys on Nuendo.com how they spent on their Native PC rigs,

> you'd be shocked.. Plus, and I'm speaking of myself as well..As soon as AMD

> or Intel introduces another new whiz bang chip, say 8 core or 16 core processors,

> we jump and rebuild our etire systems.. Yes, at first it SEEMS not that expensive...But,

> If really honest and do the math from the time you Native...You'd be shocked

> at you , Me and others have spent with trying to reach that Native Nirvana..

>

> In the time I started using Nuendo (2002), I have upgraded 4 times.

> The PC DAW builders including myself, was happy as well the music store outlets,

> and Like James M states the Manufacturers who know they have the elusive

> bait with the Native user market..

>

> Let's not even talk about lost productivity with reiventing your Pc every

> 2 years..Chasing and waiting on DAW maufactuers to Catch up with the new

> hardware offerings.. This is the very scenario that prompted me to start

> this thread..

>

> we just spec'ed out a new PT HD 3 for another room at the studio..Sweetwater

> rep go t back with us with a price of 25K with a slew of top of the line

> plugs. But, just for discussion sake, I personally don;t need a PT 3HD, a

> HD2accel wol dmore than do..128 tracks, really flexible mixer and routing..nero

> zero latency for say with I/O 14-15k...And this can run on a 500 pc an or

> old mac ..

>

> I'm not saying that PT is the bell end all, but rather just making point

> as to how much is the real TCO -Total Cost Of Ownership of staying with
> high-end Native.
>
>
> It's big bucks for them..So, like the commercial states: You can pay me now,
> Or you can Pay me later..
>
>
>
> "Neil" <OIUOIU@OIU.com> wrote:
>
>> "LaMont" <jjdpro@gmail.com> wrote:
>>
>>> I guarantee you the Native is way more expensive in the long run, than
>>>
> a
>
>>> Pro Tools HD 3Acell rig..
>>>
>> Well, that's just bullshit Lamont, because I can guarantee you
>> - whether you choose to believe it or not - that I've not spent
>> \$20k-\$25k on Native-related upgrades, hardware reconfigs, etc
>> since HD3 came out. And my shit is competitive, if not better
>> than what can be cranked out on an HD system - you've heard it
>> yourself and said as much.
>> Frankly, I don't even see how you could get CLOSE to t

Subject: Re: Big Ben and DAC1
Posted by [Wayne Carson](#) on Thu, 12 Jul 2007 07:21:47 GMT
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. If you can't tell, I want one of these guys for the TV
> station very badly.
>
>
> Larry Upton
> KPBS TV/FM
> San Diego

Thanks Larry. Just in case you're in the market right now.....

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=140154099899&indexURL=6&photoDisplayType=2#ebayphotohosting>

;o)Should read "Chris Ludwig"....sorry Chris.--

Martin Harrington

Lend An Ear Sound

Sydney, Australia

0414 913 247"DJ" <animix _ at _ animas _ dot _ net> wrote in message
news:46e2f0f8@linux...

>I just tried Voxengo Elephant on one of my stereo bounces. It didn't do
>anything to it but make it louder.....no skewing of the EQ where the VOX
>bites your head off, the LF pops your drivers against the far wall of the CR
>and the HF didn't remind me of a room full of shieking eels.

>

> Credit card has been implemented.

>

> ;o)

>

Holy****!!!..this thing is quite amazing when chained in series after the
UAD-1 Precision Limiter.

WOW!! Even acoustic based material sounds very dynamic. this is sick. I
swore I'd never give in to the loudness wars because it always scooter****ed
the sound, but Elephant doesn't do that.This is a multi-part message in MIME format.

-----=_NextPart_000_00A1_01C7F288.52C3B4A0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

A MADI system doesn't have enough I/O for my needs but it's a real PITA =
tracking using6 separate RME cards on two different computers because =
the drivers do not allow the cards to sum to one card. I've been racking =
my brain trying to figure out a way to get the I/O I need here to sum =
into a single pair of outputs by physically routing them.

Computer #1 (slave system)

RME HDSP 9632:

ADAT I/O > Frontier Apache I/O 1 (Sending VSTi audio to master DAW)

HDSP 9632 Spdif out > RME Multiface Spdif in

RME Multiface=20

ADAT I/O > Frontier Apache I/O 2 (Sending VSTi audio to master DAW)

Multiface Spdif out > RME HDSP 9652 Spdif in on master DAW

Computer #2 (Master system)

RME HDSP 9652 #1

ADAT I/O 1 > #1 RME ADI8-DS Main

ADAT I/O 2 > #1 RME ADI8-DS Aux

ADAT I/O 3> ADI4-DD (connected to AES I/O of Quantec Yardstick, Lexicon =

PCM-91, Roland R-880 and Sony V-77)
RME HDSP 9652 #1 Spdif out > RME HDSP 9652 #2 Spdif in

RME HDSP 9652 #2
ADAT I/O 1 > #2 RME ADI8-DS Main
ADAT I/O 2 > #2 RME ADI8-DS-Aux
ADAT I/O 3 > Frontier Apache I/O 3 (receiving VSTi audio from slave DAW)
RME HDSP 9652 #2 Spdif out > RME HDSP 9652 #3 Spdif in

RME HDSP 9652 #3
ADAT I/O 1 > RME ADI8-DD Main (connected to AES of Mytek Stereo AD/DA, =
POD Pro XT, TC D-2, DAT machine=20
ADAT I/O 2 > RME ADI8-DD Aux " " "
" " "
ADAT I/O 3 > Frontier Apache I/O 4 (receiving VSTi audio from slave DAW)
RME HDSP 9652 #3 Spdif out > Benchmark DAC-1

This way I would have 16 channels of ADAT streaming from the slave =
(sampler) to the Master DAW patched through the Apache and other digital =
devices I have here would be patched into the Apache points 5-12 and =
could then be interfaced with either DAW as needed for utility purposes.

This would hopefully be a workaround of the "separate card" limitation =
in Totalmix and allow me to route the various channels of each card to =
it's Spdif out and then cascade the spdif outputs to the spdif inputs of =
each successive card with them all cumulating in card #3 of the Master =
DAW.

I "think" this should work as long as the all cards are properly clocked =
and the master and slave DAWs are set to the same buffers and synced up

Subject: Re: Big Ben and DAC1
Posted by [Wayne Carson](#) on Thu, 12 Jul 2007 07:30:56 GMT
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=
using Systemlink.

Anyone have any thoughts on this before I start tearing my current =
routing matrix apart?

Thanks,

Deej

-----=_NextPart_000_00A1_01C7F288.52C3B4A0

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</HEAD>
<BODY>
<DIV><FONT face=3DArial size=3D2>A MADI system doesn't have enough I/O =
for my needs=20
but it's a real PITA tracking using6 separate RME cards on two different =

computers because the drivers do not allow the cards to sum to one card. =
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them.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>Computer #1 (slave system)</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>RME HDSP 9632:</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>ADAT I/O &gt; Frontier Apache I/O 1 =
(Sending VSTi=20
audio to&nbsp;&nbsp;master&nbsp;&nbsp;DAW)</FONT></DIV>
<DIV><FONT face=3DArial size=3D2><STRONG>HDSP 9632 Spdif out &gt; RME =
Multiface=20
Spdif in</STRONG></FONT></DIV>
<DIV><FONT face=3DArial size=3D2><STRONG></STRONG></FONT>&nbsp;</DIV>
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(Sending VSTi=20
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HDSP 9652=20
Spdif in on master DAW</STRONG></FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>Computer #2 (Master =
system)</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>RME HDSP 9652 #1</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>ADAT I/O 1 &gt; #1 RME ADI8-DS =
Main</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>ADAT I/O 2 &gt;&nbsp;&nbsp;#1 RME ADI8-DS=20
```


DAC-1</DIV>
<DIV> </DIV>
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ADAT streaming=20
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<DIV> </DIV>
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<DIV> </DIV>
<DIV>Thanks,</DIV>
<DIV> </DIV>
<DIV>Deej</DIV>
<DIV> </DIV>
<DIV> </DIV></BODY></HTML>

-----=_NextPart_000_00A1_01C7F288.52C3B4A0--This is a multi-part message in MIME format.

-----=_NextPart_000_00AC_01C7F288.774A71B0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

sorry.....I meant 5 RME cards

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Multiface Spdif out > RME HDSP 9652 Spdif in on master DAW

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RME HDSP 9652 #2

ADAT I/O 1 > #2 RME ADI8-DS Main

ADAT I/O 2 > #2 RME ADI8-DS-Aux

Subject: Re: Big Ben and DAC1

Posted by [BradLyons](#) on Thu, 12 Jul 2007 12:49:08 GMT

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9652 #2

ADAT I/O 1 > #2 RME ADI8-DS Main

ADAT I/O 2 > #2 RME ADI8-DS-Aux

ADAT I/O 3 > Frontier Apache I/O 3 (receiving VSTi audio from slave =
DAW)

RME HDSP 9652 #2 Spdif out > RME HDSP 9652 #3 Spdif in

RME HDSP 9652 #3

ADAT I/O 1 > RME ADI8-DD Main (connected to AES of Mytek Stereo =
AD/DA, POD Pro XT, TC D-2, DAT machine=20

ADAT I/O 2 > RME ADI8-DD Aux " " "
" " "

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Thanks,

Deej

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```
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charset=3Diso-8859-1">
<META content=3D"MSHTML 6.00.6000.16525" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Oy!!!...I'm braindead here. If this =
works, I won't=20
need to patch ADAT outs from the slave to ADAT ins on the master since =
I'm=20
running cubase on both systems and so everything will be cumulatively =
summed=20
through the spdif I/O of the various cards to the spdif output on the =
master=20
DAW. I can sell my Apache, get another ADI4 DD and have enough =
additional AES=20
and ADAT I/O to just route everything through the DAW and Totalmix=20
```

software.</DIV>

<DIV> </DIV>

<DIV>time to =

sleep.....sleeeeeeepppp</DIV>

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<DIV>"DJ" <animix _ at _ animas _ dot _ net> wrote in message <A =

href=3D"news:46e3aefa@linux">news:46e3aefa@linux...</DIV>

<DIV>sorry.....I meant 5 RME =

cards</DIV>

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sum to one=20

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the I/O I=20

need here to sum into a single pair of outputs by physically routing =

them.</DIV>

<DIV> </DIV>

<DIV>Computer #1 (slave =

system)</DIV>

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<DIV>RME HDSP 9632:</DIV>

<DIV>ADAT I/O > Frontier Apache I/O 1 =

(Sending=20

VSTi audio to master DAW)</DIV>

<DIV>HDSP 9632 Spdif out > =

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Spdif in</DIV>

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<DIV>Computer #2 (Master =
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<DIV>RME HDSP 9652 #1</DIV>
<DIV>ADAT I/O 1 > #1 RME ADI8-DS=20
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Aux</DIV>
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to AES I/O of=20
Quantec Yardstick, Lexicon PCM-91, Roland R-880 and Sony =
V-77)</DIV>
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> RME=20
HDSP 9652 #2 Spdif in</DIV>
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Subject: Re: Big Ben and DAC1
Posted by [Gary Flanigan](#) on Thu, 12 Jul 2007 17:33:10 GMT
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>impressed with the Symphony solution. ASIO and VST aren't way behind
>anything. Research a little better please.

That's a bit of a blanket statement, most are not impressed because of the
price of Synphony, not the performance.

>
>> Apple: Apple wh

Subject: Re: Big Ben and DAC1

Posted by [Wayne Carson](#) on Thu, 12 Jul 2007 18:08:38 GMT

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>> 24bit,32 bit float coding techniques of today, and start fresh with a
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>> 64 bit OS, along with a fresh 64 bit Pro Audio/Video app with 64 bit plugins.
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The disadvantage is, processing power, space, bandwidth, and the fact that
they and their hardware are not ready for 64bit yet, just wait.

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>Also, regarding the 1.6ms round trip, Steinberg's VSL2020 interface has/had
>0.7ms latency years ago, and if you can find one, it still does - that's
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Mike - The reason Paris, Protools, and Soundscape/Mixtreme achieve lower latency than software DAWs (Nuendo, Logic, Sonar, DP, etc) is that these are direct hardware systems, not unlike a digital mixer a la DM2000 etc. The downside, is that you can't run native applications or plugins directly on the hardware itself, and you are limited to what the hardware manufacturer and any 3rd parties develop specifically for it - the technology is also frozen in time and keeping pace with technological advancements (better

processors, faster memory, and even better quality I/O is nearly impossible and still maintain backwards compatibility - just ask PT Mix to HD upgraders). Paris only ran it's own mixer and EDS plugins on the EDS cards, but VST plugins are still native, and subject to internal latency and cpu overhead. Hence we only had 16 tracks per EDS card. 100 tracks on a native rig is nothing now.

My general DAW pros and cons response:

Though pretty much everyone here knows most of there, here is my take on all of this since it's been discussed in part in different threads recently, just because I'm bored, and hate to see misinformation distributed in pieces here and there.....

HYBRID-HARDWARE (PT, Paris, Sydec/Soundscape):

The advantage to a hardware system is of course, lower latency and running plugins on the hardware at lower latency (e.g. tracking with plugins).

The disadvantage is the systems are always proprietary (e.g. more costly, including plugins), fixed processing capability (you have to add more DSP cards to run more plugins, add more I/O, etc), and usually older technology. ProTools is still using Motorola DSP chips, which are fine, but they are ganging a dozen or so together to create processing, and you must divide that dsp between the mixer, I/O and plugins. The plugin counts are about half that for Universal Audio plugins vs. the exact same plugins on a UAD-1 card (e.g. the cost is twice, or more, per plugin to run on a TDM system vs. a native system).

Despite what others say, the cost is in fact significantly higher with a proprietary system unless you are happy with the fixed plugin load you can achieve, I/O count, etc. If you want to expand, you have to upgrade, and that is quite expensive. Digi's trade in program seems to be a decent deal, but it's still quite expensive to get 64 tracks and a decent sized mix, not counting the computer, which if you want to run anything nati

Subject: Re: Big Ben and DAC1
Posted by [rich](#) on Thu, 12 Jul 2007 18:30:04 GMT
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ve, needs to be
somewhat decent.

NATIVE:

One advantage to native is it is quite inexpensive to expand and upgrade, and you choose your software, I/O card, I/O hardware, etc. Plugins are usually 1/2 that of their TDM counterparts, or less. For the cost of an HD card, you can build/buy two dual quad PCs or Macs and one of either will run a higher plugin and track count than a single HD card (I've done the math on this several times, so don't listen to the marketing hype: a single HD card supports up to 96 simultaneous tracks at 44.1/48k - I can run that with plugins on every track on my Nuendo rig - low latency, though I don't recall how low I dropped it).

Hardware interface cards don't run the main DAW mixer or plugins locally - they just pass I/O streams between the DAW software and outside world, so there is a layer of drivers (ASIO, WDM, Coreaudio) between the hardware and DAW.

The downside to native is latency in monitoring during tracking (whether live monitoring for recording bands, or tracking VSTis, etc). During mixing this isn't a big deal. Of course with faster cpus, you can run a more complicated project (more I/O, more plugins), while maintaining low latency, but as noted in a previous response there are multicore scaling issues with Nuendo and Cubase at the moment preventing making use of the full potential of dual quad cores, or to a lesser degree, dual dual cores.

There are tradeoffs both ways that extend far beyond the latency issue: ProTools for composing/production just isn't happening for anyone I know.

It's a cool system, so I'm not knocking it in the least, just stating that like anything, thinking it's the end-all be-all, or worse, proclaiming that publicly is shortsighted, and a disservice to users considering the two options (native or hardware). The reason higher end users are going native, and the reason I'm running native, is that it affords me a significantly more flexible and cost effective upgrade and compatibility path, and the software I can use is significantly more powerful than any hybrid-hardware solution, bar none. Anyone that says one (hardware or native) is ultimately better than the other for any use either hasn't done their homework, or is selling something. :-)

Use what works best for you of course, be it Paris, ProTools, Soundscape, Nuendo, DP, Cubase, Logic, Sonar, Live, Reaper; Mac or PC; or a console and tape. In the end, what we can accomplish now with very little investment is incredible, no matter how you look at it.

Regards,
Dedric

On 9/9/07 5:07 PM, in article 46e452e6@linux, "Mike R." <emarenot@yahoo.com> wrote:

> Hey LaMont

> Thanks for the reply. Very helpful. I appreciate the overview on the state

> of the DAW world. Its so weird, as I guess the Steinway group is noting,

> that these DAWs can't get the latency down to Paris/Pro Tools levels. Paris

> was doing it with what has to be, by now, a pretty low tech card.

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> "LaMont" <jjdpro@gmail.com> wrote in message news:46e4422b\$1@linux...

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>> Mike..Direct Monitoring is very important if your running a Native based

> DAW..

>> Right now on Nunendo.com there's a Big discusion with high-end users Like

>> Brian T and others along with Steinberg as why they can't can't achive

> near

>> zero talking .5ms-1.5(rountrip)(latency with the current technology-high

>> speed dual-dual core processors.

>>

>> Yes, in Paris we have been spoiled with the best DAW latency in the

> business.

>> But, you know the Paris story. And, most folk are hell bent on a Native

> based

>> solution that can topple Pro Tools and Paris mixing and routing power..

>>

>> Having said all of that, the best way (Like BrianT) states to achieve near

>> -zero latency in a native DAW is to add a mixer(analog or Digital) . This

>> would ensure absolutly no latency when tracking. Inthe case of BrianT ,

> his

>> facily uses a Euphonix System 5 mixers(2)..Which Btw does(System 5) most

>> of EQing and Compression chores. So the strain to have the DAW do

> everthing

>> is minimal.

>>

>> Products like Total Mix (RME) Cue mix (Motu) address the Native DAW

> latency

>> issue by incorporating so clever Mixer routing "outside " of the DAW. In

>> other words, acting as an Digital Mixer with in a PC/MAC , yet able to

> route

>> audio to and fro to the Native App..

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>>

>> http://www.apogeedigital.com/products/symphony_performance.p hp

>>

>> The Apogee solution is not cheap by know means..

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Subject: Re: Big Ben and DAC1
Posted by [BradLyons](#) on Thu, 12 Jul 2007 19:03:51 GMT

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>>
>> It's your birthday. Spend money.
>>
>> ;o)
>>
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>> "John" <no@no.com> wrote in message news:46e29614\$1@linux...
>>>
>>> I'm trying to get my dynamics under control and my kick is causing me
>>> the
>>> largest problem. My goal is a crest factor of 14 for my overall mix and
>>> right now it's more like 20. When I use various compressors / limiters
>>> /
>>> eqs etc to control the dynamics it is killing the low freq thump. Does
>>> anyone
>>> have tips on how to control this wild kick drum without hosing up the
>>> tone?
>>>
>>> Thanks
>>
>>
>
> James - my comments on Symphony are simply that the reviews I've read simply
counter Lamont's claims that it is leading the audio interface market with
lower latency than anything else. 1.6ms roundtrip is great, but only if it
is reality under realistic loading - I'm all for it, and the more interfaces
running sub 2ms, or better, sub 1ms the better. No one said it's a bad
interface, or subpar than anything else, just that it isn't necessarily some
remarkable breakthrough technology.

Let's keep the facts straight and refrain from blindly defending anything
that relates to Apple (though this was specifically in response to a
poster's comments, not Apogee, Symphony, or Apple). The VSL2020 comparison
was purely to point out that low latency interfaces aren't breakthrough

technology - even RME and Lynx haven't completely reached the level of low latency the 2020 did, regardless of I/O config.

I'm all for a great interface from Apogee, for the Mac, and for Logic. As Jamie often states, competition is good for all. I don't want to be locked into anything, whether it's ProTools or Nuendo, PC or Mac, RME or Apogee.

Please, yet again, don't jump to conclusions and assume that everyone is out to trash anything remotely related to Apple, 3rd party providers, etc. James, there is often more to my comments than you might like to believe - it seems far too easy for you to jump on me assuming I'm somehow slandering Apple, and it's getting really old. Give it a rest.

I have to be honest, my tolerance level for the defensiveness and lack of technical backing for the many tech debates here is wearing quite thin. I like you guys and generally enjoy conversing here, but I'm sure we all have better things to do than wade through constantly flip-flopping hyperbole, misinformation, and replies made with no intent of reading the involved post, much less understanding the poster's point of view.

Dedric

On 9/9/07 3:14 PM, in article 46e4624b\$1@linux, "James McCloskey" <excelsm@hotmail.com> wrote:

>
> Dedric Terry <dterry@keyofd.net> wrote:
>> Lamont -
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>> That has to do with scaling on multiple processors, not the driver, or the
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> the
>>> m

Subject: Re: Big Ben and DAC1
Posted by [BradLyons](#) on Thu, 12 Jul 2007 19:07:06 GMT
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ix
>>>> board and the signal to be recorded is bussed to a monitor out? I don't
>>>> know why this is so difficult for me to grasp -probably over thinking
> it....
>>>> (or maybe not enough Scotch?)
>>>> Thanks.
>>>> MR
>>>>
>>>>
>>>> <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
>>>> <HTML><HEAD>
>>>> <META http-equiv=3DContent-Type content=3D"text/html; =
>>>> charset=3Diso-8859-1">
>>>> <META content=3D"MSHTML 6.00.2800.1555" name=3DGENERATOR>
>>>> <STYLE></STYLE>
>>>> </HEAD>
>>>> <BODY bgColor=3D#ffffff>
>>>> <DIV>Man, I'm so used to Paris that I've
> not
>>> =
>>>> really had=20
>>>> to wrap my head around this direct monitoring thing. I've been =
>>>> trying all=20
>>>> morning to find some sort of explanation that made sense. The RME =
>>>> site has=20
>>>> some info, but how the heck does a piece of software, on top of a piece
>>> =
>>>> of=20
>>>> software LOWER the latency (Total Mix "on top of" Cubase for =
>>>> example)?? Is=20
>>>> the best way to think about it to conceptualize Total Mix as functioning
>>> =

```

>>>> like an=20
>>>> external mix board: a pre-recorded track from Cubase is routed to an
> =
>>>> input on=20
>>>> the mix board and the signal to be recorded is bussed to a monitor =
>>>> out? I=20
>>>> don't know why this is so difficult for me to grasp -probably over =
>>>> thinking=20
>>>> it.... (or maybe not enough Scotch?)</FONT></DIV>
>>>> <DIV><FONT face=3DArial size=3D2>Thanks.</FONT></DIV>
>>>> <DIV><FONT face=3DArial size=3D2>MR</FONT></DIV></BODY></HTML>
>>>>
>>>>
>>>
>>
>Dedric what are you talking about ??

```

Asio may be the best for Native PC da users, but certainly not for mac users.

All in all , with ASIO getting long winded, Asio has gotten old, and they Steinberg has not figured out how to fix the routing(Mixer) issues that will put it on par with Pro Tool's software controlled hardware.

Your argument about HD plugins is valid, but Digi is throwing the kitchen sink these days with new purchases, not just trade-ins. Suffice it to say, when you purchase a new HD rig, you won't need to make many Plugin Purchases anytime soon.

I totally disagree with you about Native being a Cheaper upgrade path. Since 1999, most semi and high end users have upgraded their systems at least 4 -5 times.. With the intent of gaining more power. Even today, We sterinberg users are still on the upgrade war path with the whoho core2 dual, 8 core..yada yada..How much do you think it cost ?? what's the real TCO??

If I'm honest, I'll tell I have spent over 6K over the last 5 years, not counting software..And thats being kind.

With evey mention of a new Processor, comes the dream of Zero lantency for the Native. Now, we know our pre-64 bit cpu investments over that last couple of years has been a sham..
Sure we can run a few more plugins, but that's about it..

To me and my circle of producers and engineers, all have or will be going Pro Tool HD.. Depending on the needs, HD 2 acell seems to be the popular choice. Maybe your circle of music friend are going Native, not mine..and these guys are heavey hitters in he game.

I'm not the biggest fan of Pro Tools(AKA Slo-tools), but it has the buzz all the way down to M-powered, LE..to mix(plus).

I truly believe Native can compete with a DSP based system (for Commerical based studios) withthe inclusion of a mixer.

It's funny, a lot of Pro Tools based studios haveimplemented a Mixer. Why??

Like the Nuendo forum discusion pointed out: It seems(like always) that we have different needs. The ITB guys need near or closest to zero latency as possible. Where as the guys who just edits and mix , run their daw at 1024 and care about zero latency.

I think in the future, it would best(for all) to say what application you work in before making statements or suggestions to anyone. Because everyone has differnt studio, workflow needs.

Dedric, you mainly work in Post, where as I work in a more commercial studio. Our needs and opinions will be vastly different.

That's he problem with these kinds of dscusions in forums. You have a ITB, one room dude, running abelton live(nothing wrong with that), telling dude who works at a facility that abelton live would be good for them ..

Dedric Terry <dterry@keyofd.net> wrote:

>Lamont -

>

>On 9/9/07 12:57 PM, in article 46e4422b\$1@linux, "LaMont" <jjdpro@gmail.com>

>wrote:

>

>>

>> Mike..Direct Monitoring is very important if your running a Native based DAW..

>> Right now on Nunendo.com there's a Big discusion with high-end users Like

>> Brian T and others along with Steinberg as why they can't can't achive near

>> zero talking .5ms-1.5(rountrip)(latency with the current technology-high

>> speed dual-dual core processors.

>>

>That has to do with scaling on multiple processors, not the driver, or the

>direct monitoring concept or implementation. I'll addre

at is best for the original poster.

>>>

>>> Dedric

>>>>

>>>>

>>>>

>>>

>>

>Neil,I use PT M-Powered at home. HD 3 at the studio(s) where I work in. I do own HD software. Just have not settled on the converters.

HD is a more flexible routing solution for studios that need to integrate hardware, easily with minimal latency. I'm sorry, but HD is one Hell of a Digital Mixer.Even BrianT will say so.

Paris's patch bay was on it's way..Nuendo/SX okay.. To be honest, I think that teh guys who invented VST never imagined that engineers,, not msuicians, but engineers would get so invloved with Wanting to integrated their Hardware into Cubase.

This ahs thrown them for a complet loop(Steinberg).VST by it's very definition, Virtual STudio Technology,was meant to be jsut that..Virtual. Software only.. Not, adding Hardware devices.

It will remains to be scene if they pull it off without dedicated Hardware.

Personally llove DSP based systems. If Paris were to make a comaback , even under another name company, I'd jump in a heart beat..

Now that Lynx's have the digi mod , that migh be the way I'll go.

"Neil" <OIUOIU@OIU.com> wrote:

>

>"LaMont" <jjdpro@gmail.com> wrote:

>>

>>Okay..But, but my point was to answer the statement about
>>crappy music being made in so called pro facilities. crappy
>>clients coming in with crappy music can happen at level of
>>studio.

>>Big buck facility,does not ensure top quality product.

>

>Everybody here knows this much: you can make great music with
>crap gear & crap music with great gear. Ideally, if you can
>make great music with great gear, then every now & then you get
>the right blend of luck & skill on both sides of the glass, and

>everything gels just right. As far as crappy clients go, you
>CAN do some degree of turd-polishing. Look, this is life,
>sometimes shit just is a waste of time - bad music, bad
>players, bad gear, bad engineers... this is probably the
>majority of what gets recorded! lol
>
>We're talking about practical applications & I think that's
>what Dedric is trying to say, as well. PTHD is NOT the solution
>for everybody. I've said here before that if I had a fully-
>commercial facility, I'd absolutely have an HD rig, but really
>for the following reasons:
>1.) Ease of Compatibility with other facilities.
>2.) Plain & simple marketing - people want PT? OK, fine, I've
>got PT! No need to convince someone otherwise until they get in
>there & you can show 'em the difference if you want.
>
>That's it! No other reason! I do think the HD convertors sound
>very good (while the 888's sounded like ass), but there are
>other good-sounding convertors, as well. IOW, there is no sonic-
>specific reason to go with HD, in my view. None.
>
>BTW, I find it ironic that you espouse PT so much as
>being the "pro" solution, and talk down to those who do not
>agree with you, when you yourself DO NOT OWN IT!!! You have an
>LE system, do you not? Big fucking difference between the HD-
>196 convertors & whateverthefuck you're using in your LE rig!
>
>You DO tend to make some empirical statements without really
>thinking about it, ya know.
>
>Neil"DJ" <animix _ at _ animas _ dot _ net> wrote:
>Thanks for the heads up on this one.....see???...you can do something

>right after all, but I'm gonna be skeptical until I compare this to
>something I've done on an SSL

With an original FC-670 strapped across the 2-buss, I presume?

:)Hey everyone!

I haven't been to the group in a while and was just checking back in to make sure everything was still cool. It's good to see the familiar names are still hanging around.

I changed day jobs last March and between that, the family, and the band gigging all the time, I just haven't had a lot of time to keep up with things here. My new day gig is building and helping to design Atomic Force Microscopes. The head guy is an old music buddy of mine and he knew I was

good with gadgets and had a background in tinkering, and decided to make me an offer I couldn't refuse. Here's a link to the company if anyone is interested in just what the hell an Atomic Force Microscope is:

www.novascan.com

In other news, my band, Standing Hampton, just finished our first CD. Several of the songs started out in PARIS, but were then re-recorded and mixed in DP when I switched over. I miss the sound of PARIS, but the need for "modern" plug-in handling, virtual instruments, etc. was just too great for me. The bulk of the tracks were recorded in DP 5 on my dual 2Ghz G5. Our keyboard player recorded his tracks on his Nuendo rig and they were then flown into DP for mixing. The mastering was done by Discmakers where we had the CD manufactured. Our band plays high energy classic rock covers and we were always being asked if we had a CD, so we decided to put something out to sell at gigs, etc. It's definitely "old school" rock. The description we use is "Power pop rock at it's seveties-eightiesest". ;>) Anyway, if anyone wants to check it out, you can listen to snippets at iTunes, CD Baby and Digstation.com. Just do a search for "Standing Hampton" / "Brace Yourself" or you can get there from our web site at www.standinghampton.com.

I'll try to check in more often now that my life's slowed down a little again. I always enjoy the company here and I'm glad the place is still going strong!

Later,

TonyTony Benson <tony@standinghampton.com> wrote:

>Hey everyone!Hey everyone!

I haven't been to the group in a while and was just checking back in to make sure everything was still cool. It's good to see the familiar names are still hanging around.

>I changed day jobs last March and between that, the family, and >the band >gigging all the time, I just haven't had a lot of time to keep >up with >things here. My new day gig is building and helping to design >Atomic Force >Microscopes.

Tony, that's one of the coolest thing I can imagine. Congratulations.

-stevegot em...thanks LaMont.

On 10 Sep 2007 04:21:20 +1000, "LaMont" <jjdpro@ameritech.net> wrote:

>

>Do ou right mouse click on the link? Maybe too many people are downloading..

>

>rick <parnell68@hotmail.com> wrote:
>>i would if i could get it to download properly. it keeps quitting at
>>different points anywh

Subject: Re: Big Ben and DAC1
Posted by [Aaron Allen](#) on Fri, 13 Jul 2007 05:24:18 GMT
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ere from 1/2 mb to 13.5 mb.

>>
>>On 9 Sep 2007 12:17:37 +1000, "LaMont" <jjdpro@ameriech.net> wrote:
>>
>>>
>>>Hey.. Has anyone else tried ou these plugins? <http://antress.myweb.hinet.net/>
>>>
>>>See my post reply on my findings.. Would like your opinions..hey are free
>>>, give them a try...Thanks
>>>
>>hey tony,

welcome back though i was hoping the AFM was a new retro all metal
squirt gun...

rick

On Mon, 10 Sep 2007 02:47:45 -0500, Tony Benson
<tony@standinghampton.com> wrote:

>Hey everyone!
>
>I haven't been to the group in a while and was just checking back in to make
>sure everything was still cool. It's good to see the familiar names are
>still hanging around.
>
>I changed day jobs last March and between that, the family, and the band
>gigging all the time, I just haven't had a lot of time to keep up with
>things here. My new day gig is building and helping to design Atomic Force
>Microscopes. The head guy is an old music buddy of mine and he knew I was
>good with gadgets and had a background in tinkering, and decided to make me
>an offer I couldn't refuse. Here's a link to the company if anyone is
>interested in just what the hell an Atomic Force Microscope is:
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>Several of the songs started out in PARIS, but were then re-recorded and
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>for "modern" plug-in handling, virtual instruments, etc. was just too great
>for me. The bulk of the tracks were recorded in DP 5 on my dual 2Ghz G5. Our
>keyboard player recorded his tracks on his Nuendo rig and they were then
>flown into DP for mixing. The mastering was done by Discmakers where we had
>the CD manufactured. Our band plays high energy classic rock covers and we
>were always being asked if we had a CD, so we decided to put something out
>to sell at gigs, etc. It's definitely "old school" rock. The description we
>use is "Power pop rock at it's seveties-eightiesest". ;>) Anyway, if anyone
>wants to check it out, you can listen to snippets at iTunes, CD Baby and
>Digstation.com. Just do a search for "Standing Hampton" / "Brace Yourself"
>or you can get there from our web site at www.standinghampton.com.
>
>I'll try to check in more often now that my life's slowed down a little
>again. I always enjoy the company here and I'm glad the place is still going
>strong!
>
>Later,
>
>Tony
> http://money.excite.com/jsp/nw/nwdt_rt_top.jsp?news_id=ap-d8_rikq680&Hmmm..... I was
wondering why I was seeing Santa rosa 2220's on EBay for
\$275.00 over the weekend. I'm still going to hold off on building the
perfect beast until I see what Cubase comes up with as far as being able to
scale with dual quads. I'm thinking a Tyan S2915 mobo with a pair of 3G quad
core Barcelona's and 16G RAM running on Vista by sometime next summer. I
sure hope this puts a dent in Intels ascendancy. I still remember the "rpre
athlon" days when Intel had us all bent over and was screwing us for every
penny. I paid around \$2k for my first Paris DAW with an Intel Pentium 200MHZ
CPU.

Hooray for AMD.

;o)

"James McCloskey" <excelsm@hotmail.com> wrote in message
news:46e55ce0\$1@linux...

>

> [http://money.excite.com/jsp/nw/nwdt_rt_top.jsp?news_id=ap-d8_rikq680&Two of them...in](http://money.excite.com/jsp/nw/nwdt_rt_top.jsp?news_id=ap-d8_rikq680&Two%20of%20them...in%20series)
series. You gotta emulate an RNC with these if you're onna
be cutting edge.

;o)

"Neil" <OIUOIU@OIU.com> wrote in message news:46e4e3dc\$1@linux...

>

> "DJ" <animix_at_animas_dot_net> wrote:

>>Thanks for the heads up on this one.....see???...you can do something

>

>>right after all, but I'm gonna be skeptical until I compare this to
>>something I've done on an SSL
>
> With an original FC-670 strapped across the 2-buss, I presume?
>
> :)I guess this means you won't be buying a Mac, but what if it had AMDs in it?
;)

"DJ" <animix _ at _ animas _ dot _ net> wrote:

>Hmmm.....I was wondering why I was seeing Santa rosa 2220's on EBay for

>\$275.00 over the weekend. I'm still going to hold off on building the
>perfect beast until I see what Cubase comes up with as far as being able
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>scale with dual quads. I'm thinking a Tyan S2915 mobo with a pair of 3G
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>sure hope this puts a dent in Intel's ascendancy. I still remember the "rpre

>athlon" days when Intel had us all bent over and was screwing us for every

>penny. I paid around \$2k for my first Paris DAW with an Intel Pentium 200MHZ

>CPU.

>

>Hooray for AMD.

>

>;o)

>

>"James McCloskey" <excelsm@hotmail.com> wrote in message

>news:46e55ce0\$1@linux...

>>

>> http://money.excite.com/jsp/nw/nwdt_rt_top.jsp?news_id=ap-d8 rikq680&

>

>Lamont - instead of just replying to your latest post, I've copied sections
from a couple of posts to address at once, then leave the topic alone for
now:

On 9/9/07 6:59 PM, in article 46e4970f\$1@linux, "LaMont"

<jjdpro@ameritech.net> wrote:

> I guess we are back to our usual disagreement about what's considered Pro.

> That's fine, you can call pro anything you like..I'll refrain from such

> terms..But,

> I will use terms as Commercial and Project..even pro project studios. To me,

> just because a person has his PC/Mac in an office building does not make him

> comerial. There are certain indusry tools you must have to be considered
> commerical. Even you have high-end clients.

Usual disagreement? Okay.... My point has simply been that working in a large studio doesn't make you more knowledgeable than someone who owns their own music/audio business. We were talking about native vs. hardware hybrid, not commercial vs. project studio. Commercial is a broad description. Project has a part time/semi-pro connotation, but that's beside the point... just fyi.

Also, be careful - your comments at times come across as condescending. It puts you in a position of someday having to really back it up with a serious level of credibility. Maybe not what you intended.

> Your needs and my needs are vastly different> I really need at least 32
> channels
> of I/O for tracking..

Great - the more the merrier. :-)) 32+ is fine for tracking bands, etc.

.... wouldn't be enough for my work though, oddly enough. I run 48 now and will be doubling that in the very near future. :-)) No, it isn't a pissing match at all - just having a little fun with the notion that I/O count was a distinction between our needs. I'm also pointing out that technical requirements and knowledge aren't directly related to the size of a console, inputs, etc. I know the point you were making - you track bands, I don't - the differences in needs are obvious, but the technical differences and requirements aren't as diverse as you might think. I need studios like yours to track in from time to ti

Subject: Re: Big Ben and DAC1
Posted by [Bill L](#) on Fri, 13 Jul 2007 12:08:45 GMT
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make a directory called "neocon" and that didn't work out at all...

What happened when you tried to make a directory called: "iamaonetrickponyglobalwarmingliberalranter" ???

Anything?

Got any more political posts ready to go for me?

:)

NeilThat's a shame. Hope he went peacefully.

Neil

Bill L <bill@billlorentzen.com> wrote:

>Come back soon, Joe. We need ya.

>

>steve the artguy wrote:

>> Jazz Great Joe Zawinul Dies at 75

>>

>>

fame

>> as one of the creators of jazz-rock fusion with the band Weather Report,

>> has died, a hospital official said. He was 75.

>>

>> Zawinul died early Tuesday, a spokeswoman for Vienna's Wilhelmina Clinic

>> said, without giving details. He had been hospitalized since last month

and

>> suffered from a rare form of skin cancer, said Risa Zincke, his manager,

>> according to the Austria Press Agency.

>>

>> Zawinul won acclaim for his keyboard work on chart-topping Miles Davis

albums

>> such as "In A Silent Way" and "Bitches Brew," and was a leading force

behind

>> the so-called "Electric Jazz" movement.

>>

>> In 1970, Zawinul and saxophonist Wayne Shorter founded Weather Report

and

>> produced a series of albums including "Heavy Weather," "Black Market,"

"I

>> Sing the Body Electric," and the Grammy-winning live recording "8:30."

>>

>> He is credited with bringing the electric piano and synthesizer into the

>> jazz mainstream, but was frustrated by the lack of respect for electric

keyboards

>> and new technology among jazz purists.

>>

>> "There is no difference between a Stradivarius or a beautiful synthesizer

>> sound," Zawinul told Jazziz magazine earlier this year. "People make a

big

>> mistake in putting down electronic music. Yes, it's been misused and abused,

>> but that's true of every music.

>>

>> "There is nothing wrong with electronic music as long as you're putting

some

>> soul behind the technology."

>>
>> Austrian Chancellor Alfred Gusenbauer praised Zawinul's "unpretentious way
>> of dealing with listeners" and said he wasn't "blinded by superficialities."
>>
>> Born in 1932, Zawinul grew up in a working-class family during World War
>> II in the Austrian capital. He played accordion on the streets to make
money
>> and received classical piano training as a child prodigy at the Vienna
Conservatory.
>> In the postwar years, he grew interested in American jazz, playing in
a dance
>> band that included the future Austrian President Thomas Klestil and making
>> a name for himself on the local jazz scene in bands led by saxophonist
Hans
>> Koller and others.
>>
>> "One thing about Viennese musicians, they can really groove, more than
even
>> the German bands can," Zawinul said in a 2007 Downbeat magazine interview.
>> "It's something in our nature, perhaps. We're cosmopolitan and interracial

>>
>> In 1959, Zawinul emigrated to the United States on a scholarship to study
>> at the Berklee School of Music in Boston, but left to join Maynard Ferguson's
>> big band. He next landed a gig with Dinah Washington; his funky piano
can
>> be heard on her 1959 hit "What a Diff'rence a Day Made."
>>
>> Zawinul rose to international fame after joining alto saxophonist Cannonball
>> Adderley's band in 1961. During his nine-year stint with the band, he
composed
>> such tunes as "Walk Tall," "Country Preacher," and most notably the gospel-influenced,
>> soul-jazz anthem "Mercy, Mercy, Mercy," his first important recording
on
>> electric piano, which climbed the pop charts and won a Grammy for Adderley.
>>
>> In the late '60s, Zawinul recorded with Davis' studio band, His tune "In
&g

Subject: Re: Big Ben and DAC1
Posted by [DJ](#) on Fri, 13 Jul 2007 12:52:48 GMT
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t; a Silent Way" served as the title track for the trumpeter's first foray
into
>> the electric arena. Zawinul's composition "Pharoah's Dance" was featured

>> on Davis' groundbreaking 1970 jazz-rock fusion album "Bitches Brew," which
>> won Davis a 1970 Grammy for best jazz performance, large group or soloist
>> with large group.
>>
>> Weather Report enjoyed its biggest commercial success with the 1977 album
>> "Heavy Weather" which featured Zawinul's catchy tune "Birdland," which
became
>> one of the most recognizable jazz hits of the '70s after it was also recorded
>> by Maynard Ferguson and the vocal group Manhattan Transfer.
>>
>> After Weather Report broke up in 1986, Zawinul went on to form The Zawinul
>> Syndicate, which brought together a global village of musicians who recorded
>> such albums as the Grammy-nominated "My People" (1996) and "World Tour"
(1998).
>>
>> Associated Press Writer Charles J. Gans in New York contributed to this
report.
>>"Neil" <OIUOIU@OIU.com> wrote in message news:46e75617\$1@linux...
>
> "DJ" <animix _ at _ animas _ dot _ net> wrote:
>>I really don't think you are supposed to be able to do this
>>with Cubase. Isn't this some kind of exclusive
> Nuendo "feature"?...Well,
>>nonetheless, I'm doing it.
>
> No, it's a hardware thang, not Cubase-Nuendo thing... in fact,
> it's in the Multiface manual - remember we were talking about
> this once over the phone? And I also posted the info here once
> for somebody else a few months back. I've tested it, but
> personally I haven't had to do it yet on an actual session
> because I run the stuff through my 2nd Multiface that I don't
> need to show up in the headphone mix like a 2nd bass amp mic or
> direct stream, a triggered kick or snare signal if I've also
> got mics on 'em, ALL toms (since you get plenty of toms in the
> OH's), etc. etc.
>
> Good for you for figuring it out though! If you need 576 inputs
> to all be routed through the headphones, now you can do it!
>
> :D lol
>
> Actually, How many inputs are youse guys all using for full
> band tracking? I've got 16 analog & 8 lightpipe (plus 2 stereo
> SPDIF that are useless to me since I have no preamps with a
> SPDIF output), and I've yet to use all of 'em at once, and I
> always have at least two bass signal & at least two mics on
> each guitar & sometimes a scratch vox. Now in the case of
> someone like DeeJ who has 15 mics on each banjo, dobro, &

> washboard I can see where he'd need more :) but 16 analogs,
> plus 4 lightpipe usually gits 'er done for me. Anyone?
>
> Neil

I'm using 26 AD/DA's here. That's enough for me.

;)Martin... my apologies if I've asked you this before, but I happened to stray across a radio spin of Kylie's "Love at First Sight" the other day, and I think I remember that you worked on that, right?

Did you work on the vocal sessions and/or do you know or recall what the signal chain was? Specifically I really like the treatment of the chorus parts that go "'Cause baby when I heard you, For the first time I knew, We were meant to be as one.....". The harmonies there sound absolutely HEAVENLY! :D and there's a certain something different about each of the voices in that section too, vs the lead part - it almost sounds like the old trick for some female voices of slowing down analog tape by a quarter or half-step to track the voice, giving it a certain kind of formant countour when played back at normal speed. Not saying that's what it is, just saying it has some of those same kind of characteristics.

Hadn't heard ths song in awhile & I know I always liked the vox on it, but it really just became more apparent, not having heard it in some time. So....

Dish it! lol Signal chain? Processing?

Neil"DJ" <animix _ at _ animas _ dot _ net> wrote:
>I'm using 26 AD/DA's here. That's enough for me.

Why do you need so many cards, then? Is it for the external EFX routing & such?

Neil"TCB" <nobody@ishere.com> wrote:
>

>SX 4 has a transient designer type plug-in but I haven't had a chance to check
>it out yet. I will say this, for the money the voxengo stuff is usually spectacular.

I agree, and the only negative thing I can say about the Voxengo Transient thang (Transmodder)is that it really can't be used on cymbals, IMO - not if you're running all the drums including the OH's through a subgroup, anyway. Although if you

want to run all the drums through a submix group EXCEPT for cymbals, and THEN insert the Transmodder over that... Yummmm!
lol

Can't really use it on the 2-buss, either, since obviously cymbals have to run through that as well. If anyone's found a Transmodder setting that DOES work on the 2-buss lemme know!

Thadster, let us know when you have a chance to check out the C4 TransDesigner! Is it also an application that can be obtained sparately from somewhere, do you know?

NeilNeil wrote:

> Jamie K

Subject: Re: Big Ben and DAC1
Posted by [Rod Lincoln](#) on Fri, 13 Jul 2007 13:50:27 GMT
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/www.genelennon.com/" target="_blank">http://www.genelennon.com/
>

> Gene.

>Great read Gene, thanks.

Rob

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message
news:46eb30b1\$1@linux...

>

> Some of you may remember the home page from my beloved website (screenshot
> attached). A few months ago, under pressure, I rebuilt it as a standard

> self-promotion

> site.

>

Subject: Re: Big Ben and DAC1
Posted by [Brad Lyons](#) on Fri, 13 Jul 2007 14:31:56 GMT
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ed to start a Blog

> page. I though I would write down a few music industry stories that I

> remember

> from years past.

> The first one is about an early digital session I was evolved in. It was

> in 1978. If you have any interest in music industry history, you may find

> it interesting.
>
> A direct link to the blog is:
> <http://tinyurl.com/2co5kv>
>
> The main website is:
> <http://www.genelennon.com/>
>
> Gene.
>Hi all

I was just wondering if this card is worth buying....got a line on one for \$100

thanks

DonI was out of town and missed the zip file No Limit Update..Can someone direct me to it.? ThanksGREAT site Gene. I always knew you was da man!!!!

Lou

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>
>
>
>Some of you may remember the home page from my beloved website (screenshot
>attached). A few months ago, under pressure, I rebuilt it as a standard
self-promotion
>site.
>

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Subject: Re: Big Ben and DAC1
Posted by [TCB](#) on Fri, 13 Jul 2007 14:45:37 GMT
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>
>Gene.
>Never mind

"Don Nafe" <dnafe@magma.ca> wrote in message [news:46ebd3d9\\$1@linux...](news:46ebd3d9$1@linux...)

> Hi all

>

> I was just wondering if this card is worth buying....got a line on one for

> \$100

>

> thanks

>

> Don

>"John" <no@no.com> wrote:

>

>You should hear the sheen at 1GHZ sample rate. WOW And when it's played

>back through your FM radio where they smash the dynamics so much that it's

>one huge smear of spectral shit, then you know all your hard work and money

>was worth it.

Thing is, it doesn't cost you any more work OR money once you're in Native-land. Yeah, there is still SOME hardware that doesn't do 88.2k... like for example I wish my Presonus Central Station would (it does 96k, though, just not 88.2), so I could eliminate one more analog signal path between the convertors & the monitors; but, it's so clean that I can't even say that it would really matter much. As an aside, that little unit has probably been one of the best purchases I've made for my setup - I especially like the remote for it; having the talkback switch, mic & monitor level right there on the desktop is great - I used to have to set up a -57 on one of those little desktop stands & use a spare pre & turn the gain up & down when talking. In that scenario, sometimes it was simpler to just yell back & forth lol

>One of our FM stations has such a bad sound that it's totally unlistenable
>for me. I don't know what they fuck they are doing but it is simply horrible.
> And it's classic rock so I'm wanting to listen but they are just smearing
>every part of the music that previously existed into one bit tunnel of goo.
> Anyone else got radio stations that seriously destroy the sound ?

ABSOLUTELY! We have one here that does it. There's a wide variance in signal quality between any number of the radio stations here, a few sound OK and a couple sound like utter crap, but none of 'em really sound as good as what you hear in a

lot of major markets, either. Every time I travel somewhere else it becomes even more apparent - like I was in LA a few weeks ago, and even on the cheezy factory stereo in my Hyundai rental car, KLOS sounded great.

NeilKewl stuff, Geno! Enjoyable read.

Neil

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>
>
>
>Some of you may remember the home page from my beloved website (screenshot
>attached). A few months ago, under pressure, I rebuilt it as a standard
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>
>The main website is:
><http://www.genelennon.com/>

>
>Gene.

>"DJ" <animix _ at _ animas _ dot _ net> wrote:

>I'm not sure that it sounds that much better when it's downsampled, but
I'm

>sure hearing a silkier top end at 88.2 than at 44.1 on my RME ADI8-DS units.

Thing is...

a.) NOW you know.

b.) Another thing to remember when considering your statement "not sure that it sounds that much better when it's downsampled" is this - your statement seems to indicate that it DOES sound SOMEWHAT better (even if not "MUCH" better). It's like I've said before... how much money have we all spent on incremental gains in one aspect or another?

IOW - you want to get this or that mic or preamp because it

will sound SOMEWHAT better than what I've got now. You want to drop a grand or two on a Mytek or Benchmark D/A convertors set because it will make my monitoring sound a little clearer/cleaner. You drop a few hundred on a Porkpie snare because it's just "that much" more articulate than the snare you've got. Or even something as inexpensive as hearing an Audix i5 and deciding that you like it much better than a -57 on a guitar cab, and so you go ahead & drop 89 bucks on one. These are examples of how we all go for, or have gone for, incremental gains - not even necessarily huge ones - and will spend anywhere from tens of dollars to thousands of dollars to do so. 88.2k represents an incremental gain you can have without costing you a dime.

c.) And finally... if it doesn't exist in your initial file (the raw, individual track files), then you absolutely know for certain that NOT ONE ASPECT of what doesn't exist there can exist in the final file... whether it be a higher-frequency content above 22k - the lower harmonics of which may be perceived, but ONLY if they exist in the first file - or a more accurate representation of a given sound to begin with, multiplied by ALL the sounds on there, which could translate to a more accurate representation of the entire amalgam of sounds, all the way down the conversion spectrum, to 44.1 wav, to mp3 at whatever bitstream rate the end user is listening to it on.

It's not about WOW THAT'S FUCKING WAY HUGE AMOUNTS BETTER when you listen to the end result at two-track-dithered-down-44.1, it's about being "incrementally better" - noticeably better. What if it's only (if you could put a number on it) five percent better? Ten percent better? Personally I think it's more than that, but every little sonic improvement you can get, makes a difference, yes?

NeilDear Mike ,
congrats !!

I really believe that this effort is of great importance for all us Paris users and I do really appreciate that as all of us I guess !
Please do not stop doing what's you doing and I am here to support and help if possible and buy of course if something will come out !
Can you please try if possible update the eventiter as maybe help sort out a kind of aliasing sound crackling in some high frequencies can occur especially with guitar sounds that are frequency limited ?!!
Also could you change (maybe that is easier !!) the freak eq to be able TO CHOOSE the frequencies / ???
Can you do a sample delay plugin for eds ??
Just to compensate if needed when you don't use and DX or VST.
That's for now and keep up the great work !!!

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Subject: Re: Big Ben and DAC1
Posted by [Neil](#) on Sat, 14 Jul 2007 02:05:54 GMT
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ZmYwMDVhNWE1YTVhNWE1YTVhNWE1YWZmZmYwMDVhNWE1YTVhNWE1YTVhNWE1
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YTVhNWE1YTVhNWE1Y

[illegible]

Subject: Re: Big Ben and DAC1
Posted by [audioguy_editout](#) on Sat, 14 Jul 2007 06:33:26 GMT
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YTYzNjM2MzVhNWE1YTYzNjM2MzVhNWE1YTYzNjM2MzVhNWE1YTYzNjM2MzVh
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N2VmZjdmZmVmZjdmZmJkZTdmN2JkZGVlZmJkZGVlZmJkZGUNCmVmYjVkJmZWVm
YmRkZWVmYmRkZWVmYmRkZWVmYjVkJmZWVmOTRjNmQ2OGNiNmQ2NzM4Y2E1Y2VkJm
NmQ2Y2VkJmRIODQ4NDg0NDI0MjQyMDBjZWQ2ZDZmZmZmZmZjZWQ2ZDZjZWQ2
ZGVlNWQ2ZWZjNmU3ZjdjNmVmZjdmZmZjZWY3ZmZiNWQ2DQplZmJkZGVlZmI1ZDZl
N2JkZGVlZmI1ZDZlZmJkZGVlZmI1ZDZlNzAwMDBmZmI1ZDZlZmJkZGVlZmI1
ZDZlN2JkZGVlZmI1ZDZlZmJkZGVlZmJkZGVlZmNlZjdmZmM2ZjdmZmVmZjdm

Subject: Re: Big Ben and DAC1
Posted by [Nil](#) on Sat, 14 Jul 2007 22:38:43 GMT
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ZWVmYjVkJZWVmYmRkZWVmYmRkZWVmOTRjNmQ2OGNiZGQ2NzM4Y2E1Y2VkNmQ2
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Subject: Re: Big Ben and DAC1
Posted by [BradLyons](#) on Sat, 14 Jul 2007 22:45:50 GMT
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ZGVIZml1ZDZIZmJkZGVIZml1ZDYNCmU3YmRkZWVmYjVkJmVmYmRkZWVmYjVkJm
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Subject: Re: Big Ben and DAC1
Posted by [BradLyons](#) on Sat, 14 Jul 2007 22:46:26 GMT
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Subject: Re: Big Ben and DAC1
Posted by [Neil](#) on Sun, 15 Jul 2007 15:26:22 GMT
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Subject: Re: Big Ben and DAC1
Posted by [DJ](#) on Sun, 15 Jul 2007 16:34:02 GMT

MjlyMjlyMjlyMjlyMDIyMjlyMjlyMjlyMjly
MjlyMjlyMjlyMjlyMjlyMjlyMjlyMjlyMjlyMjlyMjlyMjlyMjlyMjly
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MDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAw

Subject: Re: Big Ben and DAC1
Posted by [audioguy_editout_](#) on Mon, 16 Jul 2007 03:44:34 GMT
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>
>about machines for home users?

Both.

No, you were making an ignorant blanket statement that Mac cost 40-50% more that PCs. Looking for a fair comparison. So make a fair comparison, and compare a new Mac to a new Dell or HP. You won't because you know your wrong.

>Maybe if you were a little less enamoured with the world of the great Apple

- >and a little more in touch
- >with the fact that it's a business to make a profit off of people buying it
- >hook line and sinker just like you, then you would see it for what it is

>hardware and software. That's it. Not the world's greatest discovery since

>fire and bread. Just a product sold to make money.

I see it as more than just hardware and software, because it is more than just hardware and software, but you don't get that. You also don't get that the hardware and software are higher end. Some people get that.

>

>Why is it so many Mac users can't seem to have an objective discussion?

>Answer that honestly before

>you go calling anyone else a Mac basher. Mac users here aren't the only

>ones I deal with - seems to be a disease of

>defensiveness you get when you buy one, but it's uncanny, seriously uncanny

>and sad. That's how monopolies and bully

>companies are built - blindly loyal customers. Be careful, you may get what

>you never wished for.

>

Why do you and others here bash the Mac as soon as there is a discussion?

it's unnecessary. Personally I would prefer that we change the discussion!

But hey, throw some more gas on the fire. Keep making insults and make sure you get personal. Monopolies and bullies? Open your eyes and look at your beloved Microsoft! There is a long history there. Apple started this whole thing by innovating and creating. All Microsoft can do is copy, steal, and bully. Get real! who's a blindly loyal customer? I use both, how about you?

>Yet again, for the 11234098340th time you didn't read what I (or anyone

>else) writes and you assume we are bashing. We try to have logical

>discussions here, but you take everything as a slight on your beloved Apple.

>This alone makes me want to avoid Apple products like the plague. You've

>pretty much dominated the computer discussions here that used to be useful,

>but not so much anymore. Every computer discussion gets turned into an

>Apple advertisement, so yes, we will defend our points of view, but only

>because we get inundated by your Apple mantra every time the words PC, Mac,

>Apple, microsoft or computer come up in a thread.

>

No, I know your bashing, and others here also know your bashing, but they choose to stay out of it. No, every-time any thing mac is mentioned you and a few others that don't even have much experience with current Macs,

take pot shots, spew untruths, and get down right insulting, like you are right now!

>Why don't you go to

Subject: Re: Big Ben and DAC1
Posted by [DJ](#) on Mon, 16 Jul 2007 06:19:29 GMT
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rts below each

>> for

>>>> us

>>>> to compare.

>>>>

>>>> On 9/20/07 11:56 PM, in article 46f35d11\$1@linux, "James McCloskey"

>>>> <excelsm@hotmail.com> wrote:

>>>>

>>>>>

>>>>> Dedric, you say that a Mac cost 40-50% more, I don't think that is

>>>>> accurate

>>>>> if your talking about off the shelve computers. It's these kind of

>> blanket

>>>>> statements that make me want to set things strait. Here 's the

>>>>> challenge,

>>>>> go price the same configuration from Dell and HP. Let see how far
off

>>>> the

>>>>> pricing is.

>>>>>

>>>>> Let's start at the top, these are Apple's standard configurations.

>> The

>>>> only

>>>>> thing I've changed is the processors. By the way, Dell just came
out

>>>> with

>>>>> 3.2 GHz machines this week, so stick to the 3.0 GHzs. I'm sure Apple

>>>> will

>>>>> be upgrading processor speeds soon. I think they won't be as far
off

>>>> as

>>>>> you think they are.

>>>>>

>>>>> \$2499.00 or \$59.00 a month

>>>>> Two 2.66GHz Dual-Core Intel Xeon "Woodcrest" processors

>>>>>

>>>>> Woodcrest 2.66GHz: 2 x \$721 = \$1442

>>>>>
>>>>> MSI 5000X dual socket 771 Server board (2xPCIe, 2xPCI-X, 1xPCI): \$400
>>>>>
>>>>> Antec 550W power supply: \$100
>>>>>
>>>>> Coolermaster case: \$60
>>>>>
>>>>>> 1GB memory (667MHz DDR2 fully-buffered DIMM ECC)
>>>>> Crucial DDR667 1G (2x512): \$34.99
>>>>>
>>>>>> NVIDIA GeForce 7300 GT graphics with 256MB memory
>>>>> \$70 (middle of the price range between Chaintech and EVGA or Asus)
>>>>>
>>>>>> 250GB Serial ATA 3Gb/s 7200-rpm hard drive1
>>>>> Seagate SATA 3Gb/s, 250G: \$80 (Hitachi: \$67)
>>>>>
>>>>>> 16x double-layer SuperDrive
>>>>> Plextor 18x burn, DL, CD/DVD burner: \$40
>>>>>
>>>>>> Apple Keyboard and Mighty Mouse
>>>>> Basic keyboard and mouse: \$30
>>>>>
>>>>>> Mac OSX and a software bundle including iLife '08
>>>>>
>>>>> WinXP Pro: \$139 (builder/OEM price)
>>>>>
>>>>> Total separate parts price: \$2326
>>>>>
>>>>> I went higher on the drive, DVD writer and memory than I believe
>>>>> MacPros
>>>> do,
>>>>> so you could take another \$75-\$100 off the final price. The video
card
>>>> is
>>>>> mid-range so that should be comparable, if not also a little higher

>>>>> than
>>>> a
>>>>> Mac Pro's card. The motherboard I chose also has 5 PCI/e/X slots vs.
>> 3
>>>> on
>>>>> the Mac Pro.
>>>>>
>>>>>> So the Mac Pro isn't far off the same PC system, but it would still
be
>&

Subject: Re: Big Ben and DAC1
Posted by [Gantt Kushner](#) on Mon, 16 Jul 2007 07:32:44 GMT
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gt;>>> useful to know what make/model memory, drives, and motherboard are
in
>> use
>>>>> (the latter being unknown/custom retrofitted with the OS dongle chip).
>>>>>
>>>>> Also a head to head comparison of the same app (Nuendo 4 might be the
>>>>> first/best choice for that) running performance tests on the same
>>>>> hardware,
>>>>> OSX vs. WinXP would be quite informative.
>>>>>
>>>>> Regards,
>>>>> Dedric
>>>>>
>>>>>>
>>>>>>
>>>>>> \$3,298.00
>>>>>> Two 3.0GHz Dual-Core Intel Xeon "Woodcrest" processors
>>>>>> 1GB memory (667MHz DDR2 fully-buffered DIMM ECC)
>>>>>> NVIDIA GeForce 7300 GT graphics with 256MB memory
>>>>>> 250GB Serial ATA 3Gb/s 7200-rpm hard drive1
>>>>>> 16x double-layer SuperDrive
>>>>>> Apple Keyboard and Mighty Mouse
>>>>>> Mac OSX and a software bundle including iLife '08
>>>>>>
>>>>>> \$3,997.00
>>>>>> Two 3.0 Quad-core intel Xeon
>>>>>> 1GB memory (667MHz DDR2 fully-buffered DIMM ECC)
>>>>>> NVIDIA GeForce 7300 GT graphics with 256MB memory
>>>>>> 250GB Serial ATA 3Gb/s 7200-rpm hard drive1
>>>>>> 16x double-layer SuperDrive

Subject: Re: Big Ben and DAC1
Posted by [Aaron Allen](#) on Mon, 16 Jul 2007 12:22:05 GMT
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>>>>>>>>> traction there) having their machines in a Best Buy or Wal-Mart
>> or
>>>>>>>>> whatever
>>>>>>>>> would certainly shift some units. The Apple stores are nice,
but
>>>> it's
>>>>>>>>> not
>>>>>>>>> like there's one in every mall in America. But as you say, they

>> want
>>>>>>> to
>>>>>>>> protect
>>>>>>>>> their cool factor and diluting the 'Mac experience' by mixing

>>>>>>>>> with
>>>>> the
>>>>>>>
>>>>>>>>> plebes
>>>>>>>>> won't enhance that and might detract from it. Think Debian,
>>>>>>>>>
>>>>>>>>> TCB
>>>>>>>>>
>>>>>>>>> "Chuck Duffy" <c@c.com> wrote:
>>>>>>>>> In response to this article:
>>>>>>>>>
>>>>>>>>> <http://www.247wallst.com/2007/09/apple-keeping-m.html>
>>>>>>>>>
>>>>>>>>> Analysts are so short sighted it borders on the absurd.
>>>>>>>>> What's the production cost of an Armani suit? 50 bucks? Do
you
>>>> think
>>>>>>>
>>>>>>>>> Armani
>>>>>>>>> is going to get in bed with WalMart. No freaking way.
>>>>>>>>> As tech heads we continually are mystified about component cost

Subject: Re: Big Ben and DAC1
Posted by [BradLyons](#) on Tue, 17 Jul 2007 01:36:52 GMT
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1Xx66fE4Ljf7fdvnsNxcyxm9is+csm77Mv0EXenReKQsuOUjG3J04BeX95WY
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