Subject: Re: objects, crashes, and negative memory oh my
Posted by Paul Van Delst[1] on Sat, 02 Dec 2006 00:09:37 GMT
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R.G. Stockwell wrote:
> "Paul van Delst" <Paul.vanDelst@noaa.gov> wrote in message
> news:ekq7e2$u4o$1@news.nems.noaa.gov...
>> R.G. Stockwell wrote:
>>> "Pete Warner" <warner.pete@yahoo.com> wrote in message
>>> news:1164983221.424081.106940@f1g2000cwa.googlegroups.com...
>>>> I guess I've been thinking about asking for an upgrade. Maybe I already
>>>> got it. Anybody know if Windows Vista can address 16 exabytes or will I
>>>> need Linux for that?
>>> Has mankind even measured 16 exabytes of data in all of human history?
>>> I wonder what the spectrum of that looks like?
>> I know it's O(6) less, but I was in a meeting the other day when a
>> colleague walked in with a 4TB portable HDD (containing global reanalysis
>> "nature run" data) and casually mentioned that the other four disks will
>> be arriving soon.
>
> NICE!
>
> anyways, to throw out some numbers, 16 exabytes would be roughly
> equivalent to making a measurement for every square kilometer on earth,
> every second, for the past 1000 years. Or equivalently, for 100 heights at
> each kilometer each second over the past 10 years. That would be awesome.

Wow. I never thought about it like that. If you took into account the "spreading" of data
as the height increased (i.e. increased the spatial density to ensure at least 1 sq.km
coverage and each 100 levels) and decreased the temporal sampling to, say, every five
minutes (so you could measure more things like the temperature, h2o, o3, co2, ch4, no2,
so2, etc, cloud water content, cloud ice content, cloud particle size, shape would be nice
too, aerosol concentration for dust, woc,doc,wbc,dbc, sea salt, and sulphites, etc.. etc..
along with all the surface property measurements) *that* would be a neato dataset.

Only problem is all the wires would get in the way of the weather. :oD

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Paul van Delst   Ride lots.
CIMSS @ NOAA/NCEP/EMC   Eddy Merckx
Ph: (301)763-8000 x7748
Fax:(301)763-8545