

Re: Reading specific memory address into variable

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.cpp/2004-10/2790.html

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Date: 10/20/04

Date: Tue, 19 Oct 2004 21:26:51 -0700

David Casey wrote:

> *I'm working on a program for my C++ class and have it all written and
> working except for one part. I need to compare two numeric variables to
> determine decimal accuracy between them. For example:*
>
> *pi = 3.14159...*
> *mynum = 3.14226...*
>
> *The mynum is accurate to 2 decimal places compared to pi. I could figure
> this out easy with a char array since I could just take a character one at
> a time from each array and compare it. However with a numeric variable I'm
> coming up short trying to figure this out.*
>
> *I've had other ideas, but I can't seem to make any of them work right so I
> figured I'd go back to my original idea which is to figure out where in
> memory the variable is stored using a pointer. Then read each digit in
> individually and compare it with the same digit in the same position in the
> other variable. If they are equal, add 1 to the precision variable. If
> they're not, then leave the loop and the accuracy is whatever precision is
> equal to.*
>
> *I've spent quite a few hours tonight looking in all the C++ books I own and
> searching both the Internet and Usenet but to no avail. I suppose I'm
> looking for a way to do what I was able to in BASIC all those years ago
> like the peek command which would return whatever was in a specific memory
> location.*
>
> *I'm not looking to be given an answer to my problem, just a nudge in the
> right direction so I can find it myself. Thanks to any help anyone can
> provide.*

If a=0.000000123 and b=0.00000012499 is it accurate to 8 decimal places?

if a=123.1 and b=123.2 is it accurate to 0 decimal places?

Or is it more likely you care about accuracy to