Subject: Re: OT: Can someone explain this? Posted by =HT=T-Bird on Fri, 23 Dec 2005 19:30:25 GMT View Forum Message <> Reply to Message

Mathematics assumes that numbers have infinite precision. However, that's not possible with computers that use floating-point arithmetic, so you get round-off that gives you really tiny numbers instead of 0. Example of the WRONG way to do things (in C++):

float f1 = 2.0 - 1.0; float f2 = 1.0; if (f1 == f2) std::cout << "this might not happen"; else std::cout << "oops...floating point round-off";

(I still haven't figured out how to insert tabs in forum posts) and the RIGHT way:

float f1 = 2.0 - 1.0; float f2 = 1.0; if (std::fabs (f1 - f2) < std::numeric_limits <float>::epsilion ()) std::cout << "this works";</pre>

I hope this helps

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