Subject: Re: fix(4.70*100) is... 469
Posted by mmeron on Thu, 19 Apr 2007 00:14:31 GMT
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In article <f06ane\$21t\$1@news.ucalgary.ca>, "Jean H." <ighasban@DELTHIS.ucalgary.ANDTHIS.ca> writes: >> Hooboy! Haven't had one of these in awhile. :-) >> http://www.dfanning.com/math_tips/sky_is_falling.html >> >> >> Cheers, >> >> David > > It seems a bit weirder though... > IDL> print, 470.0 - (4.70*100) 3.05176e-005 > which is bigger than the smallest float > IDL> print, (machar()).eps 1.19209e-007 > so how can it be the float accuracy problem if the difference > between the expected and the real value is 256 times bigger than the > float error? Careful here. The smallest float provides relative accuracy, meaning the difference between exact and stored value X doesn't exceed X*(machar()).eps. This is well satisfied here. Mati Meron | "When you argue with a fool,

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chances are he is doing just the same"