

Re: Doubt about formula transcription

Source: <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2008-04/msg00325.html>

- *From:* "Michael Metcalf" <michaelmetcalf@xxxxxxxxxxxxxxxx>
 - *Date:* Mon, 07 Apr 2008 20:09:04 GMT
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"Leonardo Marques" <surf3r0@xxxxxxxx> wrote in message
news:9c4bdee7-084e-4644-8b90-74cbef524878@xx

hey guys,

im with a little problem when im transcribing a math formula from maple to fortran, because when i put a solution on the equation, i got a result diferent from zero.

The formula is: $2 \cdot \arctan(\sin(a) \cdot \cos(a) / (.8 - \cos(a)^2)) - 4/9 \cdot \text{Pi}$;
I've transcribed to fortran as: $2 \cdot \text{atan}((\sin(a) \cdot \cos(a)) / (0.8 - \cos(a)**2)) - ((\text{pi}) * 4/9)$

I don't know Maple, but in Fortran 4/9 gives zero. Try 4.0/9.0.

Regards,

Mike Metcalf