

Re: Speed of Light

Source: <http://sci.tech--archive.net/Archive/sci.physics.relativity/2006-11/msg02427.html>

- *From:* "kenseto" <kenseto@xxxxxxxxxx>
 - *Date:* Tue, 28 Nov 2006 13:42:10 GMT
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"jillbones" <b92057@xxxxxxxxxx> wrote in message
news:1164675810.784261.179500@xx

A vessel 300,000,000 meters wide is traveling at near light speed. >
.99 c
Would the time required for a photon to travel from one side of the
ship to the other side be ;

(1) One second according to the ship's clock? or

One second according to the ship's clock is correct. The speed of light in
any frame is a constant math ratio as follows:
Light path length of ruler (299,792,458m long physically)/the absolute time
content for a clock second co-moving with this ruler.
This new definition for the speed of light give rise to a new theory of
relativity called IRT. IRT includes SRT as a subset. However, unlike SRT,
the equations of IRT are valid in all environments—including gravity. A
description of IRT is in the paper entitled "Unification of Physics" in the
following website:
http://www.geocities.com/kn_seto/index.htm

Ken Seto

- (2) One second according to a clock on Earth? or
- (3) One second according to both clocks? or
- (4) Some arbitrary time not related to the nominal speed of light?

regards;

Bill J