

a.)

Tag 1 – This declares a variable of type int.

This is to store bit and byte values for sizeof functions below.

Tag 2 – The sizeof functions replace "%d" with the associated value in order from left to right.

The int_var variable is declared above.

b.)

Output file – lab1_prob1_run1

c.)

Output file – lab1_prob1_run2

d.)

It is negative due to an overflow. The number is too large to be stored as a double – not enough storage space.

Fixed the problem by changing data type of variable time_stamp from double to long int.

e.)

On both machines, values are approximately equal now, where as before when the data type

was double, they gave different results on different machines. The correct value is approximately 1440000000, because the value is consistent on both machines when changed to long int.

Output files: lab1_prob1_run3 and lab1_prob1_run4

f.)

Platform specific for Linux. It contains the following members:

time_t tv_sec (seconds)

suseconds_t tv_usec (microseconds)

g.)

Submitted output files lab1_prob1_run1, ...run2, ...run3, and ...run4