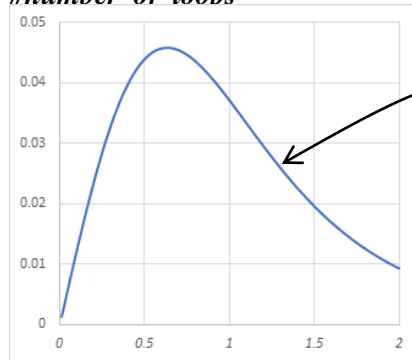


Homework Assignment 3 – due on Saturday, October 14 (Midnight)

Description of Assignment:

You are to write an openMP C program(`area.c`) which computes the area under the curve of a graph $f(x)$ shown in the following figure. Your program should measure execution time using milliseconds and GFLOPS with the next command. You have to use **double** and **long** for variables.

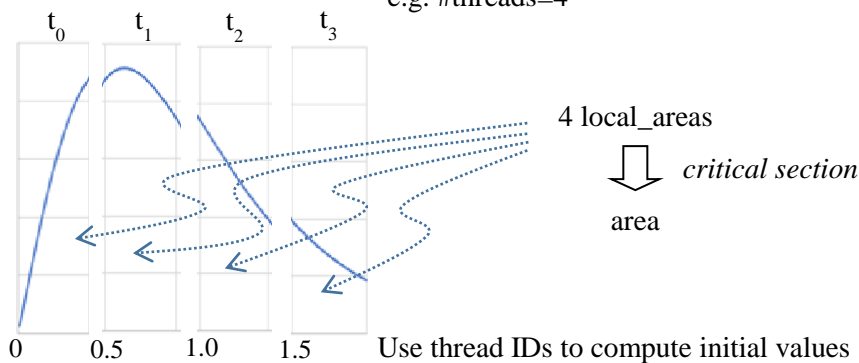
area #threads #number of loops



$$f(x) = \frac{x}{(x^2 + 2)^3}$$

Tips for the program:

e.g. `#threads=4`



How to proceed:

1. Copy `/home/course/hpc/area.c` into your working directory.
2. Complete `area.c` to parallelize using openMP
3. Test “`area #segments #threads`” assuming the executable file name is `area`.

Turnin the assignment:

After done your assignment, type **turnin** in your current working directory. You can retype the command at any time before the due date.