











Activities Sep 30 19:37 ●

~/EE1103 program files/Exercise-5: LU decomposition/profiledata.txt • - Sublime Text (UNREGISTERED)

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Flat profile:

Each sample counts as 0.01 seconds.
% cumulative self self total
time seconds seconds calls Ts/call name
100.17 0.48 0.48 main

% the percentage of the total running time of the time program used by this function.

cumulative a running sum of the number of seconds accounted seconds for by this function and those listed above it.

self the number of seconds accounted for by this seconds function alone. This is the major sort for this listing.

calls the number of times this function was invoked, if this function is profiled, else blank.

self the average number of milliseconds spent in this ms/call function per call, if this function is profiled, else blank.

total the average number of milliseconds spent in this ms/call function and its descendents per call, if this function is profiled, else blank.

name the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

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G = 90 Cubic Spline Time taken = 0.48 Seconds Stranger Automore

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Flat profile: Each sample counts as 0.01 seconds. no time accumulated cumulative self total calls Ts/call Ts/call name seconds seconds the percentage of the total running time of the program used by this function. time cumulative a running sum of the number of seconds accounted seconds for by this function and those listed above it. self the number of seconds accounted for by this function alone. This is the major sort for this seconds listing. calls the number of times this function was invoked, if this function is profiled, else blank. the average number of milliseconds spent in this self ms/call function per call, if this function is profiled, else blank. the average number of milliseconds spent in this total function and its descendents per call, if this ms/call function is profiled, else blank. the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed. Copyright (C) 2012-2020 Free Software Foundation, Inc.

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profiledata2.txt

G = 90
Linear spline
Unfortunately (or fortunately)
the time it takes is less than
the least count. So the output
is shown as "No time accumulated"

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Flat profile:



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Each sample counts as 0.01 seconds. cumulative self self total calls Ts/call Ts/call name seconds time seconds 100.17 0.04 0.04 main

the percentage of the total running time of the program used by this function. time

cumulative a running sum of the number of seconds accounted for by this function and those listed above it.

the number of seconds accounted for by this self function alone. This is the major sort for this seconds listing.

the number of times this function was invoked, if calls this function is profiled, else blank.

self the average number of milliseconds spent in this function per call, if this function is profiled, ms/call else blank.

the average number of milliseconds spent in this total function and its descendents per call, if this ms/call function is profiled, else blank.

the name of the function. This is the minor sort name for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

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G = 200Cubic Spline Time taken = 0.04 Seconds

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Line 114, Column 1

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Flat profile:

Each sample counts as 0.01 seconds. no time accumulated

cumulative self total calls Ts/call Ts/call name seconds seconds

profiledata2.txt

the percentage of the total running time of the program used by this function. time

cumulative a running sum of the number of seconds accounted for by this function and those listed above it.

self the number of seconds accounted for by this seconds function alone. This is the major sort for this listing.

calls the number of times this function was invoked, if this function is profiled, else blank.

the average number of milliseconds spent in this self ms/call function per call, if this function is profiled, else blank.

the average number of milliseconds spent in this total function and its descendents per call, if this ms/call function is profiled, else blank.

the name of the function. This is the minor sort name for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

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G = 200Linear spline Unfortunately (or fortunately) the time it takes is less than the least count. So the output is shown as "No time accumulated"

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112 113 Flat profile: Each sample counts as 0.01 seconds. no time accumulated 118 % cumulative self self total calls Ts/call Ts/call name 120 seconds seconds 121 122 the percentage of the total running time of the 123 time program used by this function. 124 cumulative a running sum of the number of seconds accounted seconds for by this function and those listed above it. 127 self 128 the number of seconds accounted for by this function alone. This is the major sort for this seconds 130 listing. 131 the number of times this function was invoked, if calls 132 133 this function is profiled, else blank. 134 135 self the average number of milliseconds spent in this ms/call function per call, if this function is profiled, else blank. 137 138 the average number of milliseconds spent in this 139 total ms/call function and its descendents per call, if this function is profiled, else blank. 141 142 143 the name of the function. This is the minor sort name 144 for this listing. The index shows the location of 145 the function in the gprof listing. If the index is 146 in parenthesis it shows where it would appear in 147 the gprof listing if it were to be printed. 148 Copyright (C) 2012-2020 Free Software Foundation, Inc. 150 Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved. 154

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G = 700**Cubic Spline** In this case, for a large G like 700, the time taken is again not calculated as it is less than the least count

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profiledata2.txt

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total

ms/call









Flat profile: Each sample counts as 0.01 seconds. no time accumulated cumulative self total calls Ts/call Ts/call name the percentage of the total running time of the time program used by this function. cumulative a running sum of the number of seconds accounted for by this function and those listed above it. self the number of seconds accounted for by this seconds function alone. This is the major sort for this listing. calls the number of times this function was invoked, if this function is profiled, else blank. self the average number of milliseconds spent in this ms/call function per call, if this function is profiled, else blank.

function is profiled, else blank. the name of the function. This is the minor sort for this listing. The index shows the location of the function in the gprof listing. If the index is in parenthesis it shows where it would appear in the gprof listing if it were to be printed.

the average number of milliseconds spent in this function and its descendents per call, if this

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G = 700Linear spline Unfortunately (or fortunately) the time it takes is less than the least count. So the output is shown as "No time accumulated"

From the graphs and the profiling data, we can say:

1. Linear spline is faster than Cubic spline

2. But Cubic spline is more accurate than Linear and can also fit oscillating data reasonably well

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