



Universidad de León

Grado de Ingeniería Informática

Arquitectura de computadores

BENCHMARK RESULTS

Realizado por los alumnos Diego Fernández Velasco, Pablo de la Hera Martínez

y Pablo Javier Barrio Navarro

Para el Profesor D. Miguel Ángel Conde.

Marzo 2020

RESULTS OBTAINED

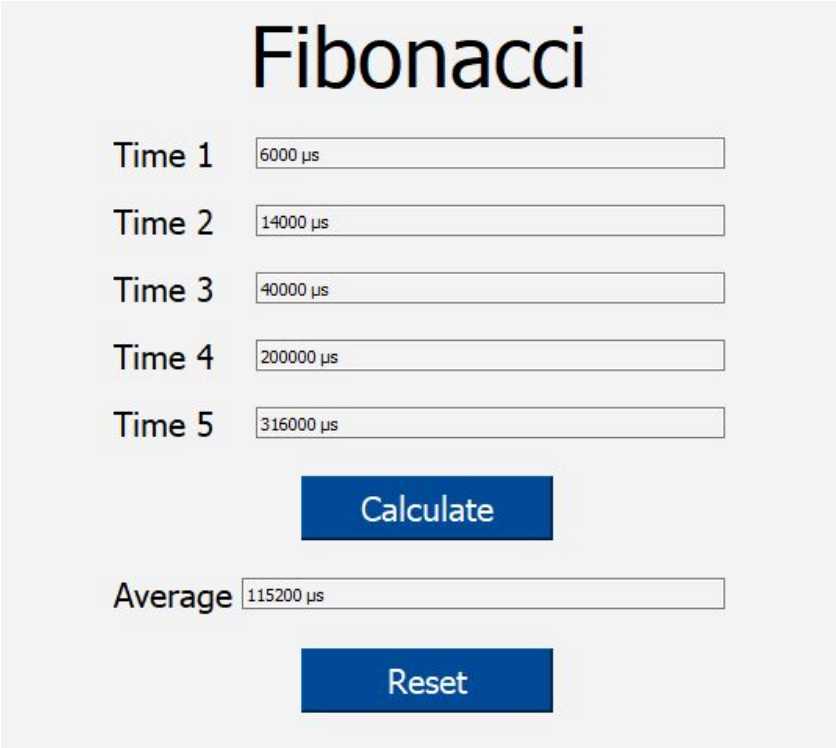
The specifications for our PCs and the results obtained are the following ones:

➤ **PC Diego Fernández** → Intel(R) Core(TM) i7-8565U CPU (8th Gen)

1.80GHz 1.99GHz

12GB RAM

★ Fibonacci algorithm



The screenshot shows a web-based application titled "Fibonacci". It features five input fields for "Time 1" through "Time 5", each containing a value in microseconds (µs). Below these fields is a blue "Calculate" button. Under the button is an "Average" label followed by an input field showing the calculated average. At the bottom is a blue "Reset" button.

Time	Value (µs)
Time 1	6000
Time 2	14000
Time 3	40000
Time 4	200000
Time 5	316000
Average	115200

★ Black & White conversion:

Black & White

Time 1

Time 2


Time 3

Time 4

Time 5

Average

Imagen:



➤ **PC Pablo de la Hera** → Intel(R) Core(TM) i5-8250U CPU (8th Gen)

1.60GHz 1.80GHz

12GB RAM

★ Fibonacci algorithm:

Fibonacci

Time 1	<input type="text" value="9000 μs"/>
Time 2	<input type="text" value="23000 μs"/>
Time 3	<input type="text" value="56000 μs"/>
Time 4	<input type="text" value="236000 μs"/>
Time 5	<input type="text" value="382000 μs"/>

Calculate

Average

Reset

★ Black & White conversion:

Black & White

Time 1	<input type="text" value="258 ms"/>
Time 2	<input type="text" value="236 ms"/>
Time 3	<input type="text" value="234 ms"/>
Time 4	<input type="text" value="228 ms"/>
Time 5	<input type="text" value="233 ms"/>

Average	<input type="text" value="237.8 ms"/>
---------	---------------------------------------

Imagen:

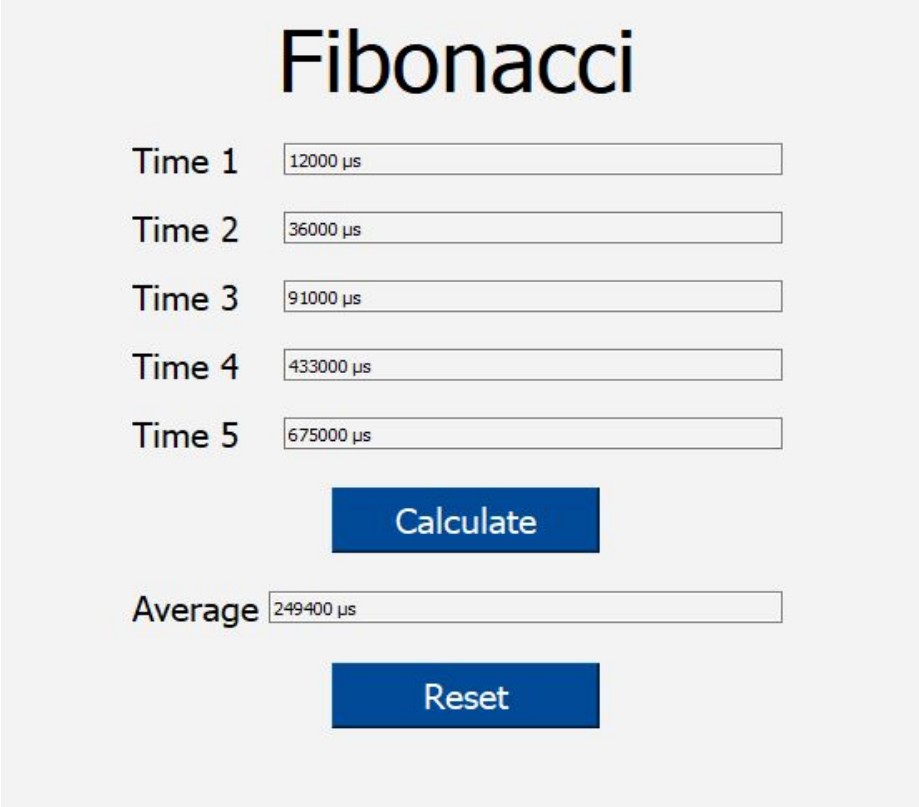


➤ **PC Pablo Javier Navarro** → Intel(R) Core(TM) i7-6500U CPU (6th Gen)

2.50GHz 2.59GHz

12GB RAM

★ Fibonacci algorithm



The image shows a web-based benchmark interface for the Fibonacci algorithm. It features a title 'Fibonacci' at the top. Below it, there are five rows, each labeled 'Time 1' through 'Time 5' on the left and a text input field on the right. The input fields contain the values '12000 μs', '36000 μs', '91000 μs', '433000 μs', and '675000 μs' respectively. Below these rows is a blue button labeled 'Calculate'. Under the button is an 'Average' label followed by a text input field containing '249400 μs'. At the bottom is another blue button labeled 'Reset'.

Time	Value
Time 1	12000 μs
Time 2	36000 μs
Time 3	91000 μs
Time 4	433000 μs
Time 5	675000 μs
Average	249400 μs

★ Black & White conversion:

Black & White

Time 1

436 ms

Time 2

414 ms

Time 3

432 ms

Time 4

460 ms

Time 5

422 ms


Calculate

Average

432.8 ms

Reset

Imagen:



<

>

Load Images

Save Images

Conclusions

- **Fibonacci algorithm:** based on the results obtained, we can say that Pablo Javier's PC, being a 6th generation, is the slowest processor doing the Fibonacci Algorithm (avg 249 400 microseconds), the other processors of 8th generation have more or less the same average time of 125 000 microseconds. (115 200 and 141 000).
- **Black & White conversion:** based on the results calculated, in this case, we do not detect so much difference between the three processors, maybe slightly. Best processor is Diego's processor with an average time of 181.6 milliseconds, then Pablo De La Hera's processor (237.8 milliseconds), and the worst was Pablo Javier's processors with an average of 432.8 milliseconds.