Análisis de eficiencia

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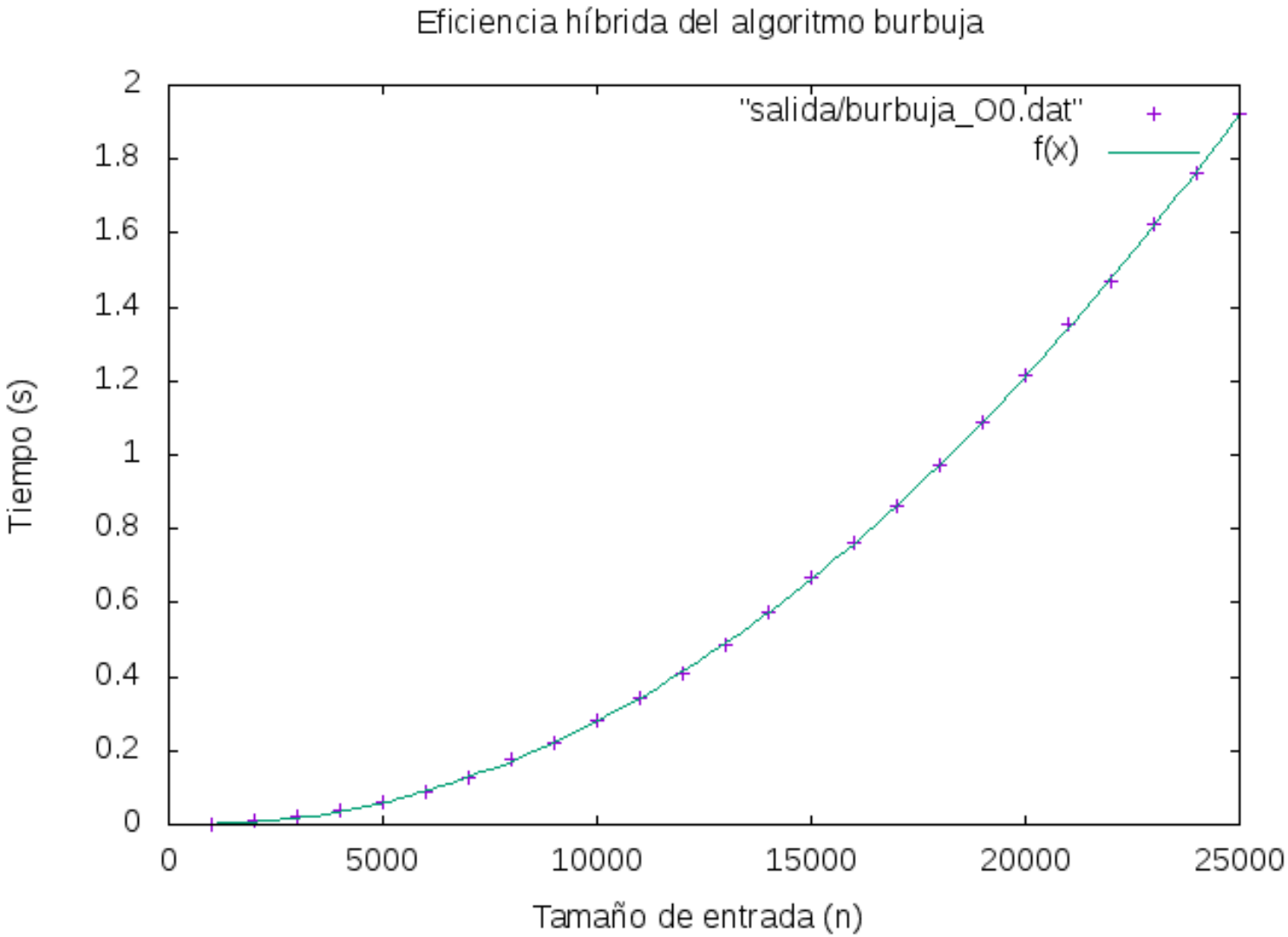
Algoritmos a analizar

- Burbuja
- Insercción
- Selección
- Mergesort
- Quicksort
- Heapsort
- Floyd
- Hanoi

Algoritmo burbuja

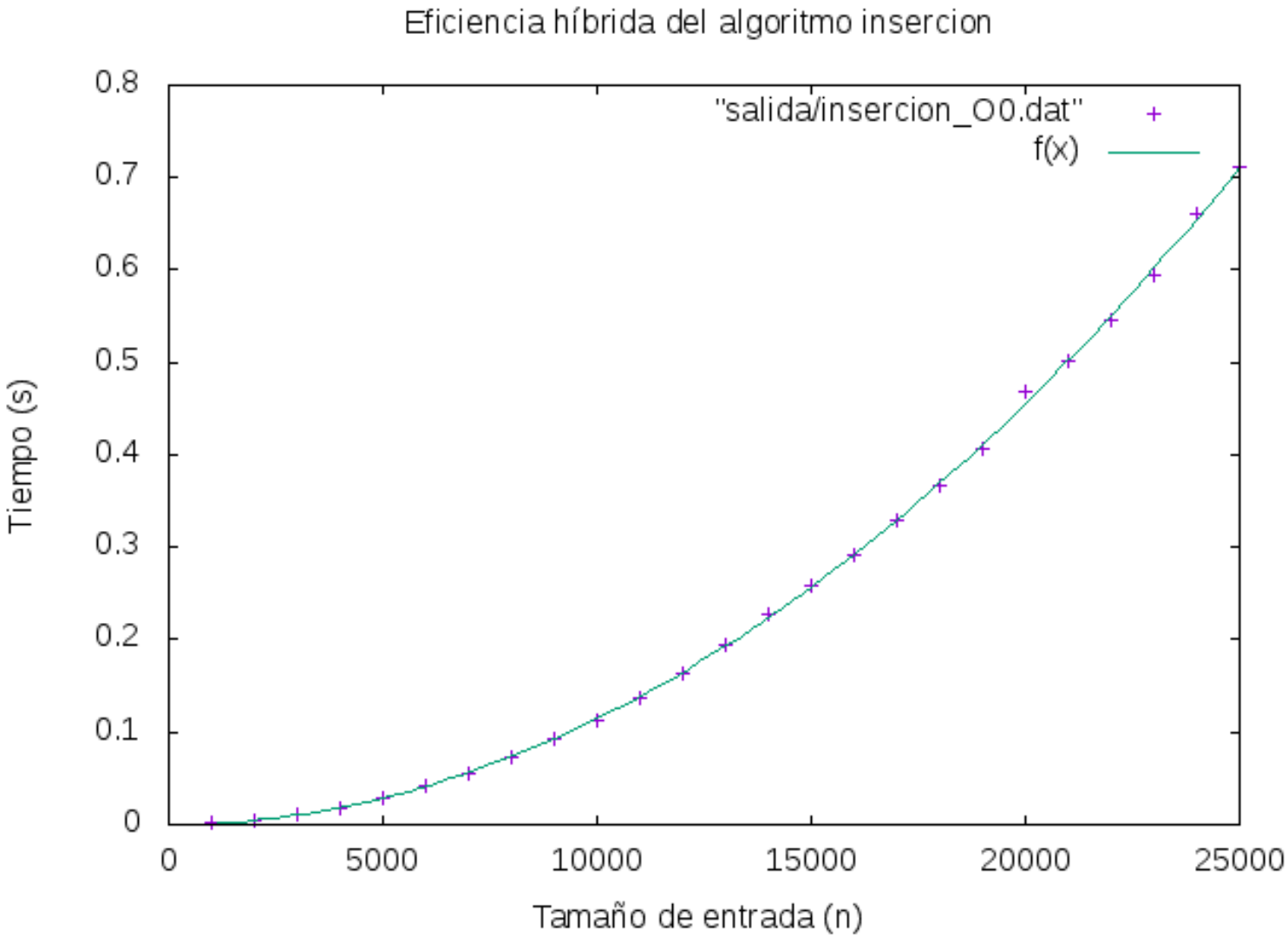


Para el ajuste he usado la función:

$$ax^2 + bx + c$$

```
Final set of parameters            Asymptotic Standard Error
=======================            ==========================
a                 = 3.28357e-09    +/- 1.726e-11    (0.5256%)
b                 = -5.30415e-06   +/- 4.623e-07    (8.715%)
c                 = 0.00451332     +/- 0.002608     (57.79%)
```

Algoritmo de inserción

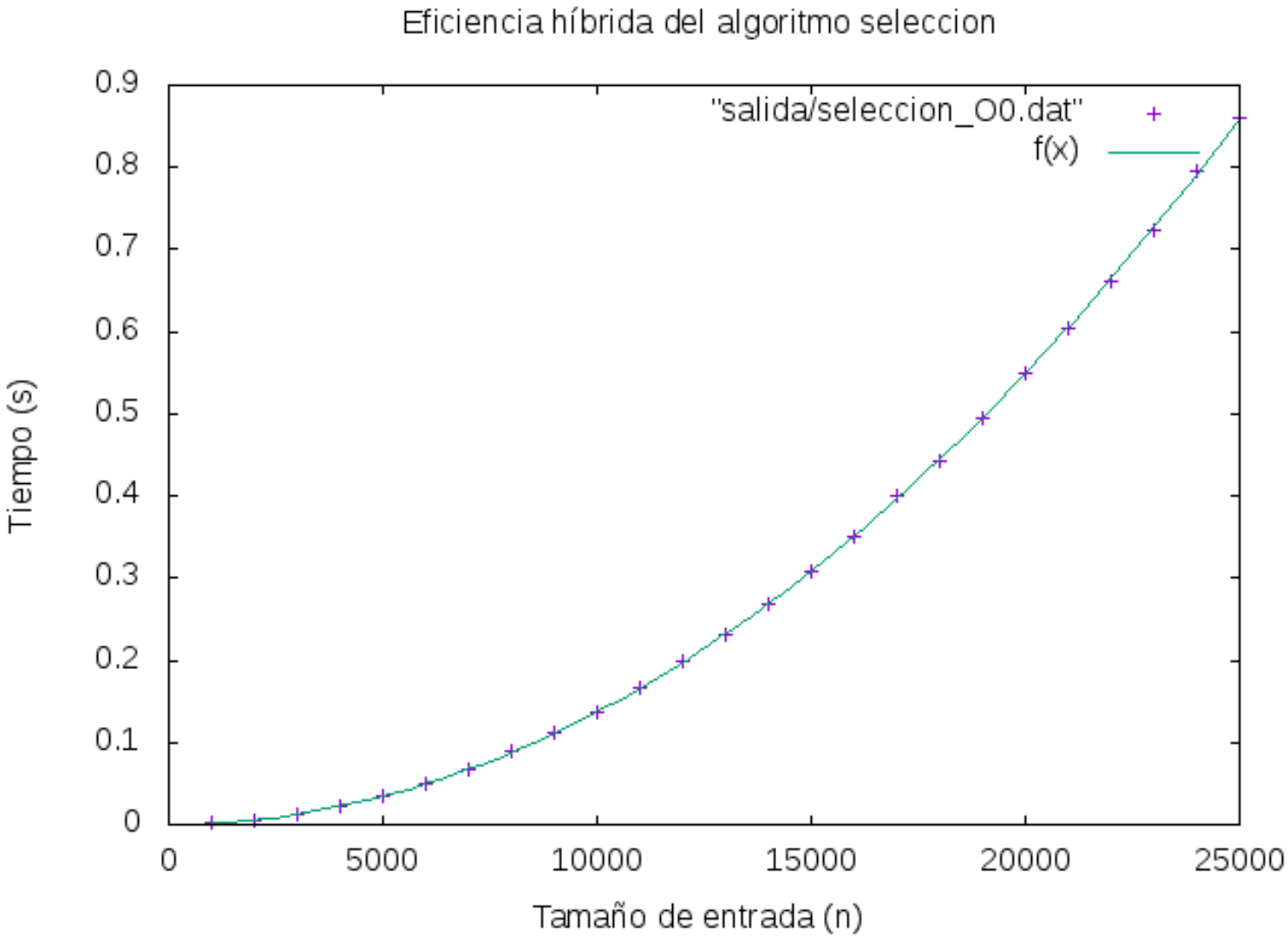


Para su ajuste he usado la función:

$$ax^2 + bx + c$$

```
Final set of parameters            Asymptotic Standard Error
=======================            ==========================
a                 = 1.12876e-09    +/- 1.577e-11    (1.397%)
b                 = 2.22477e-07    +/- 4.225e-07    (189.9%)
c                 = -0.00044311    +/- 0.002384     (538%)
```

Algoritmo de selección

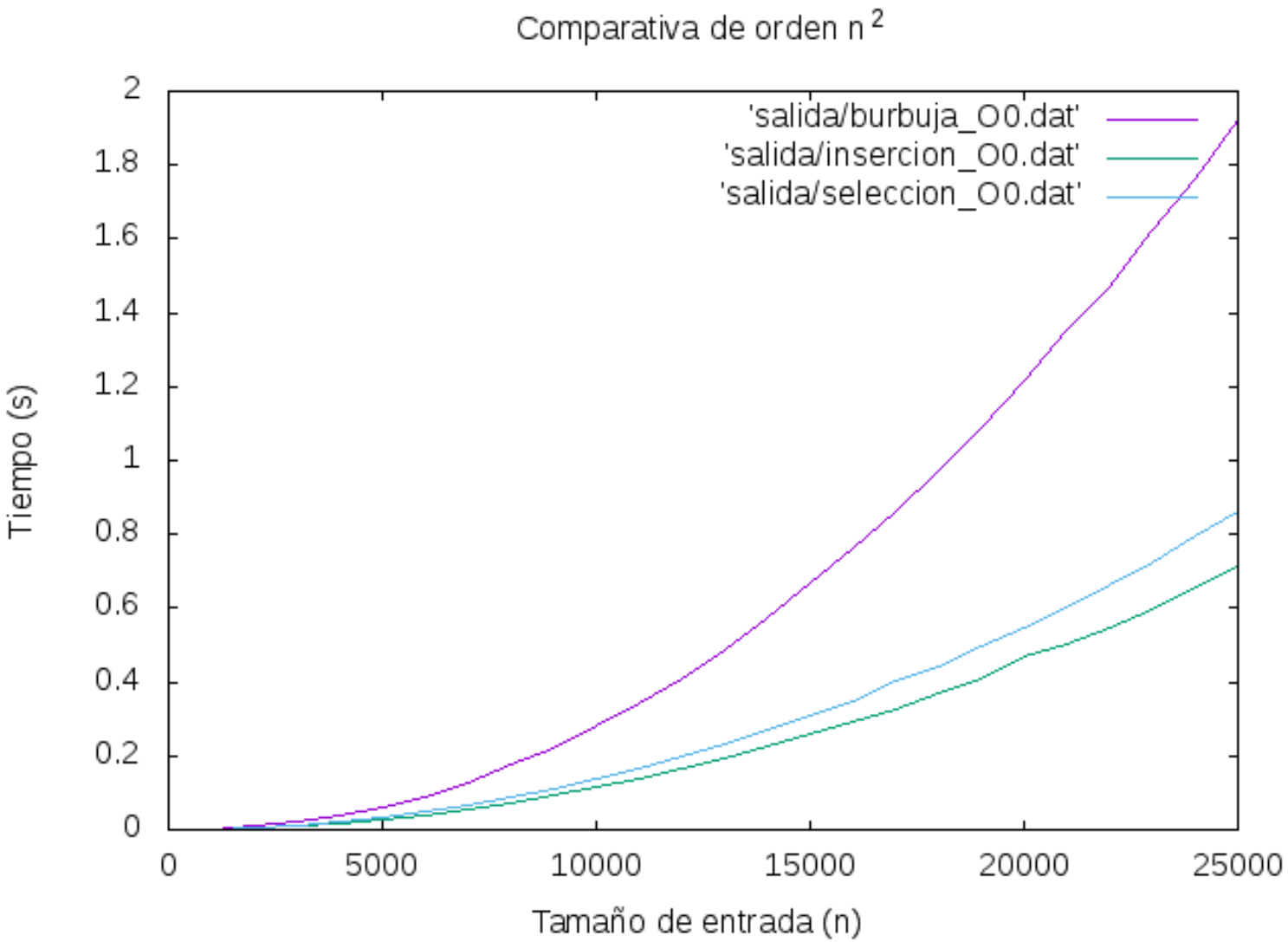


Para su ajuste he usado la función:

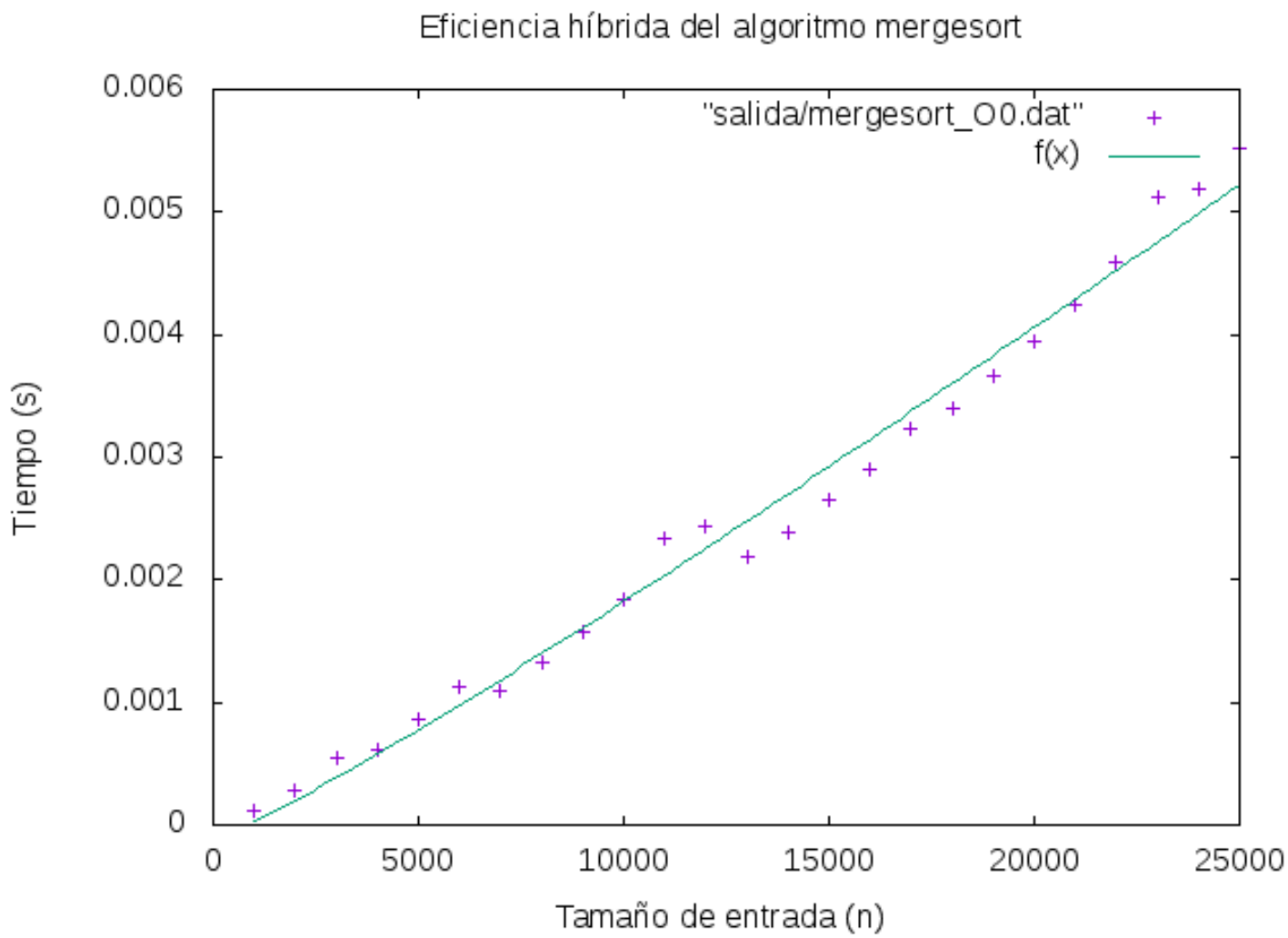
$$ax^2 + bx + c$$

```
Final set of parameters            Asymptotic Standard Error
=======================            ==========================
a                 = 1.37901e-09    +/- 8.147e-12    (0.5908%)
b                 = -1.54865e-07   +/- 2.182e-07    (140.9%)
c                 = 0.000768081    +/- 0.001231     (160.3%)
```

Comparación de los algoritmos cuadráticos

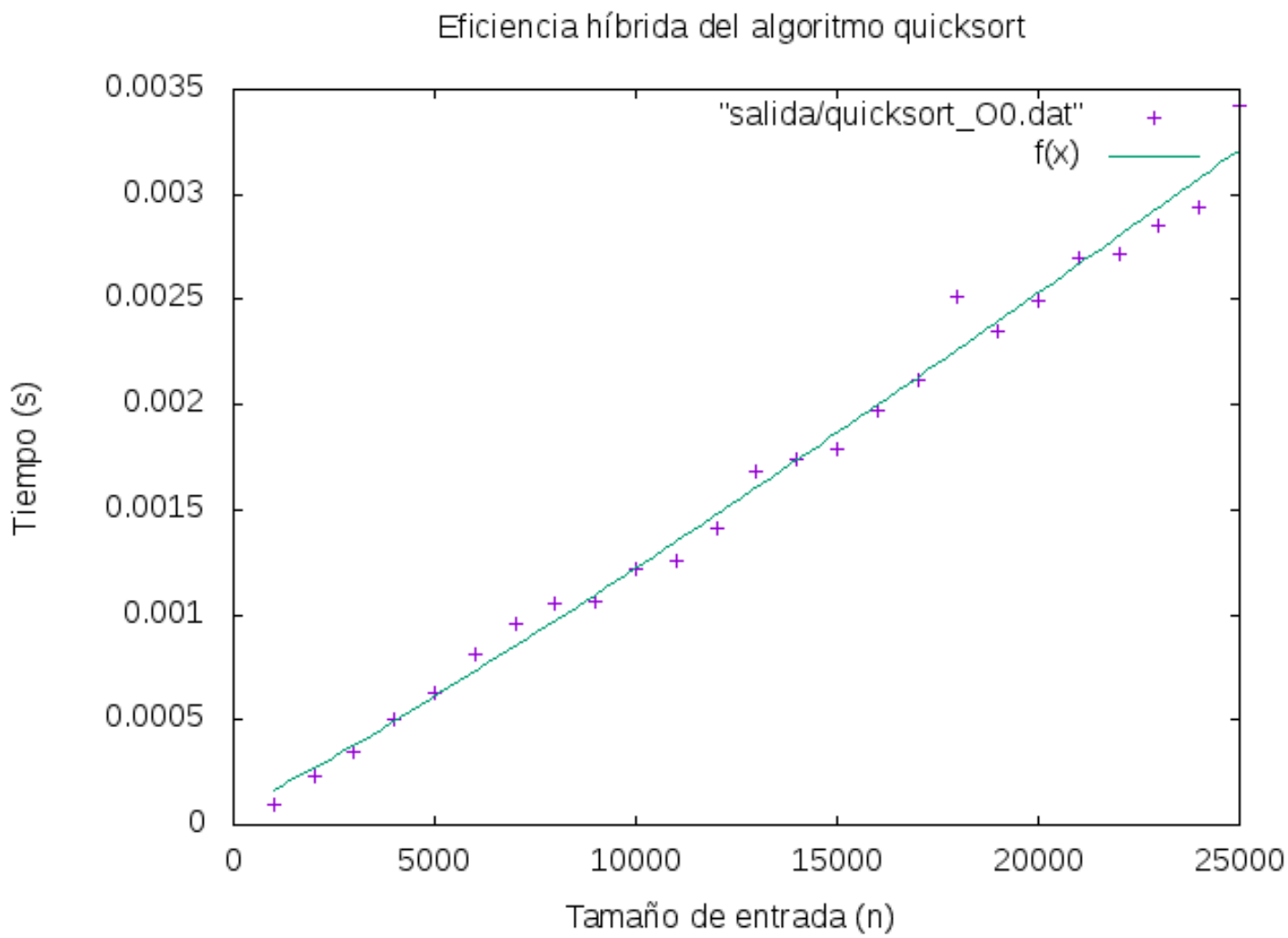


Mergesort



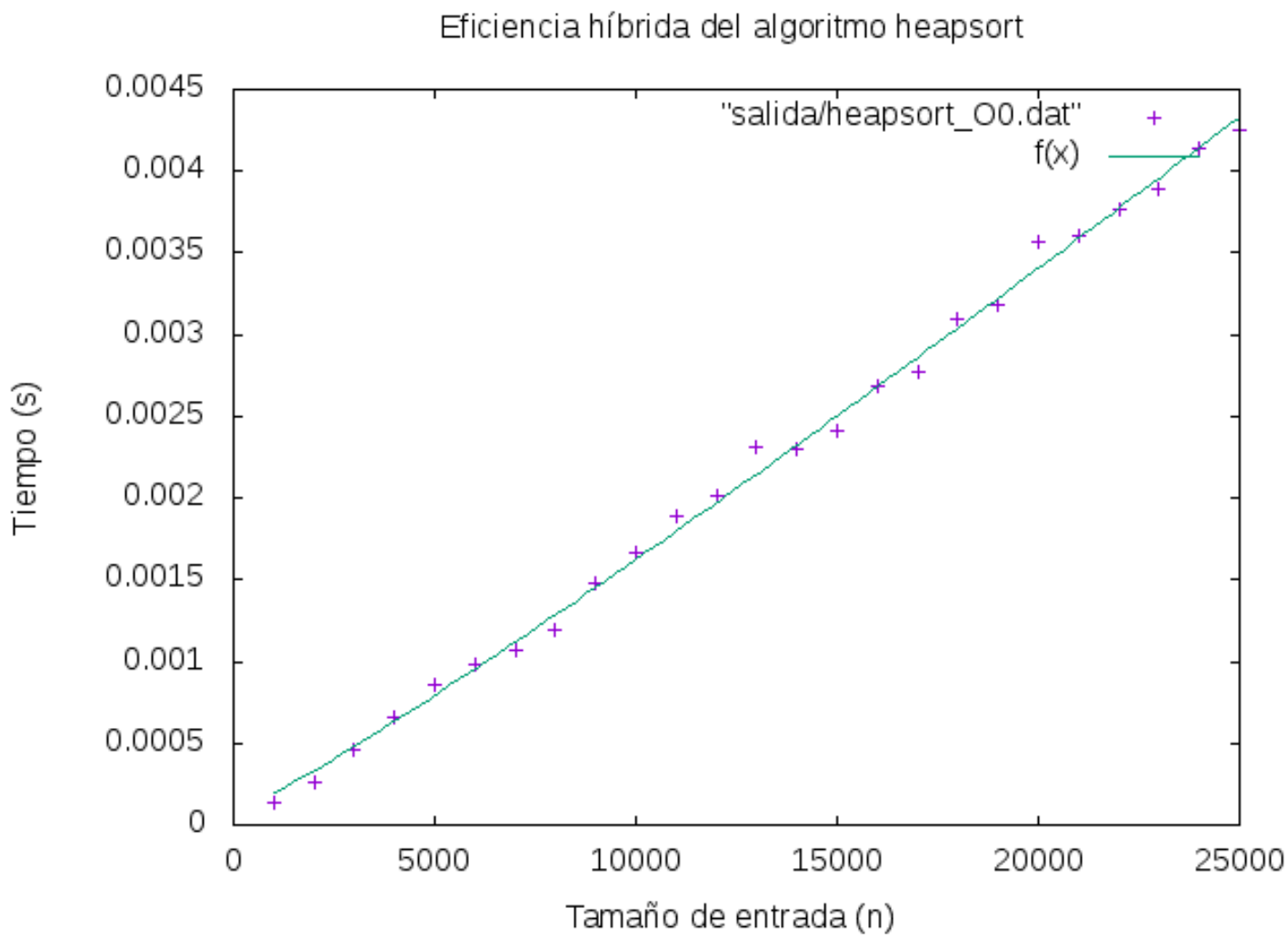
Para su ajuste he usado la función:

Quicksort



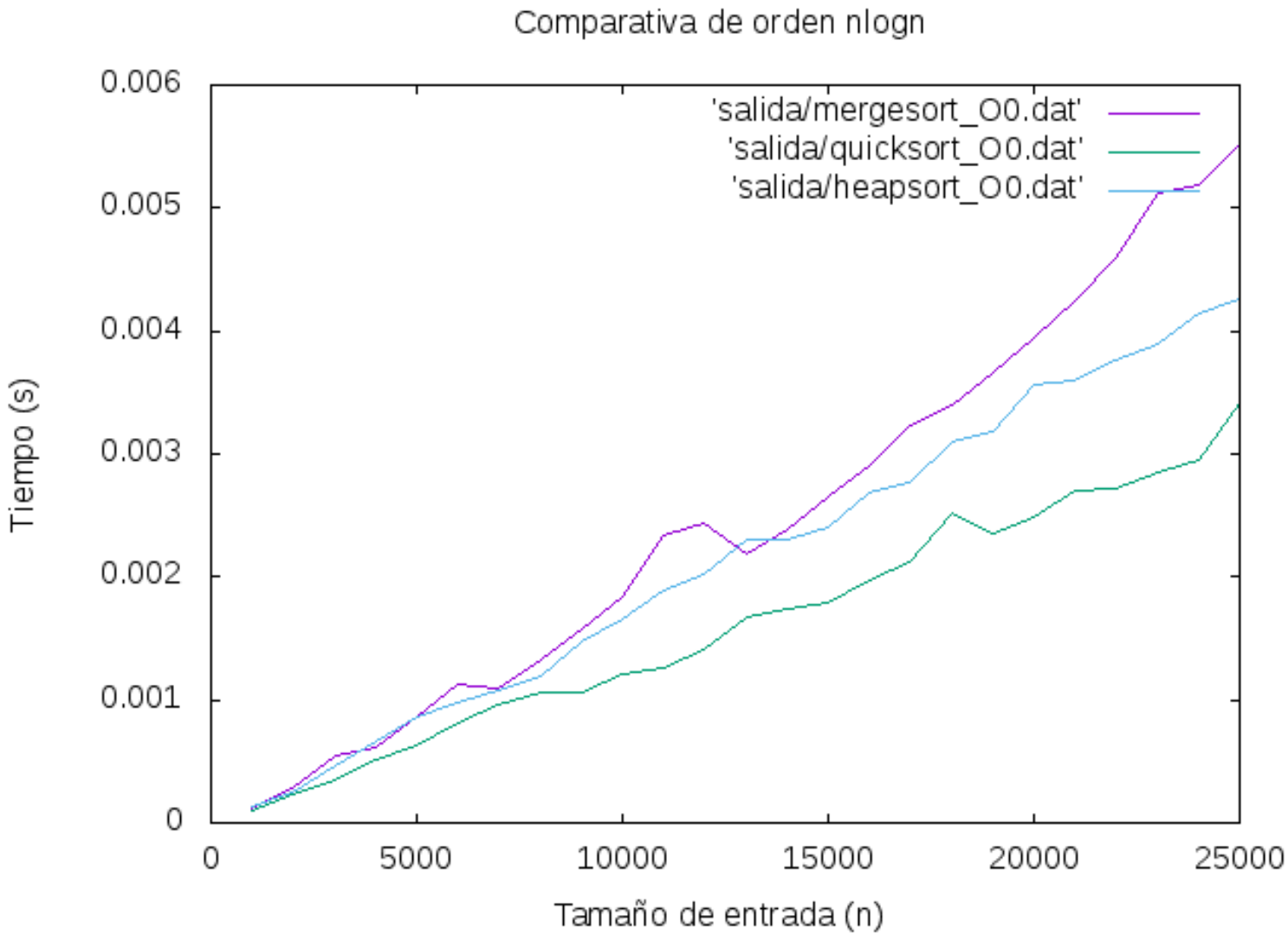
Para su ajuste he usado la función:

Heapsort

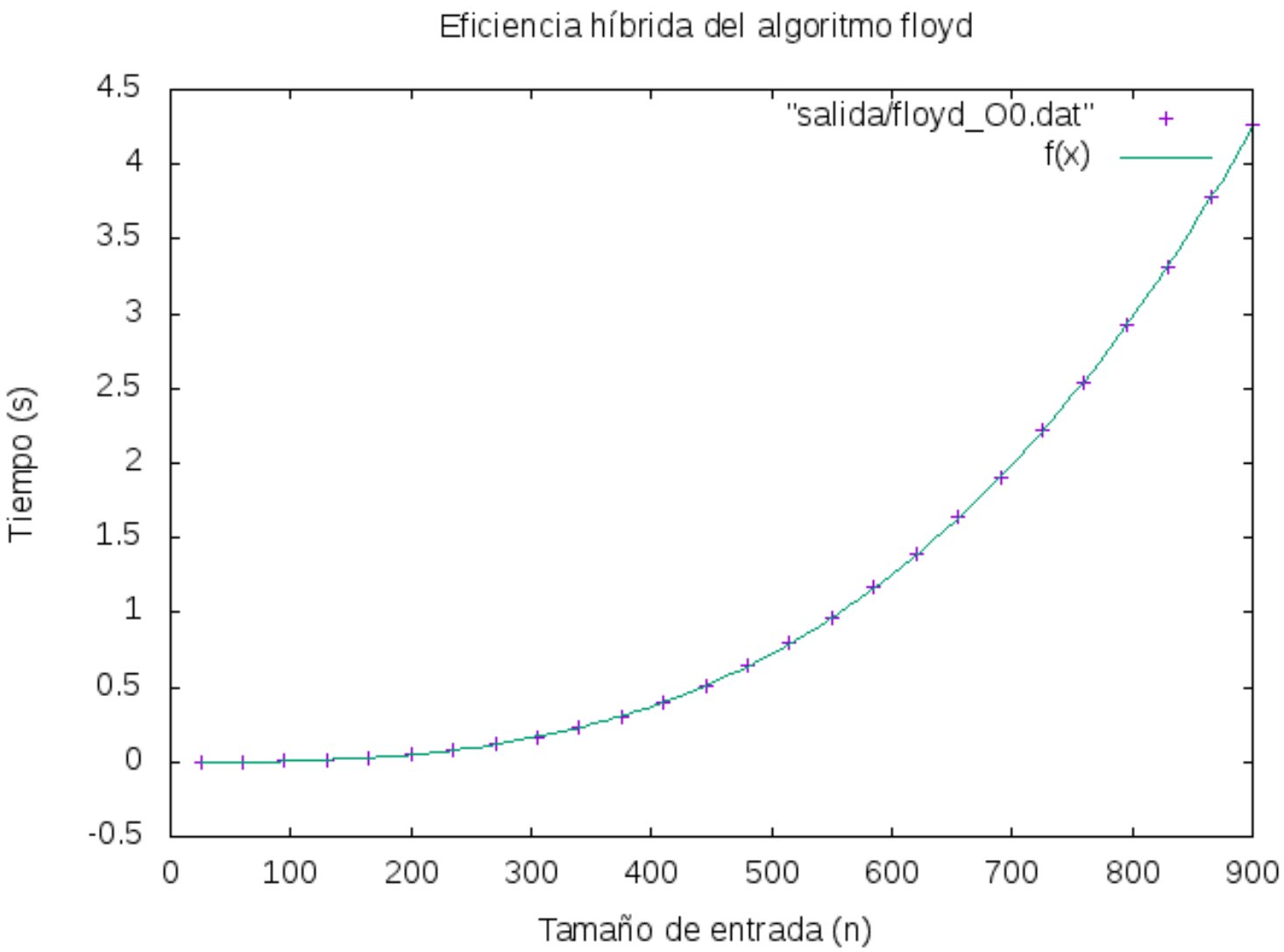


Para su ajuste he usado la función:

Comparación de los algoritmos n-logarítmicos

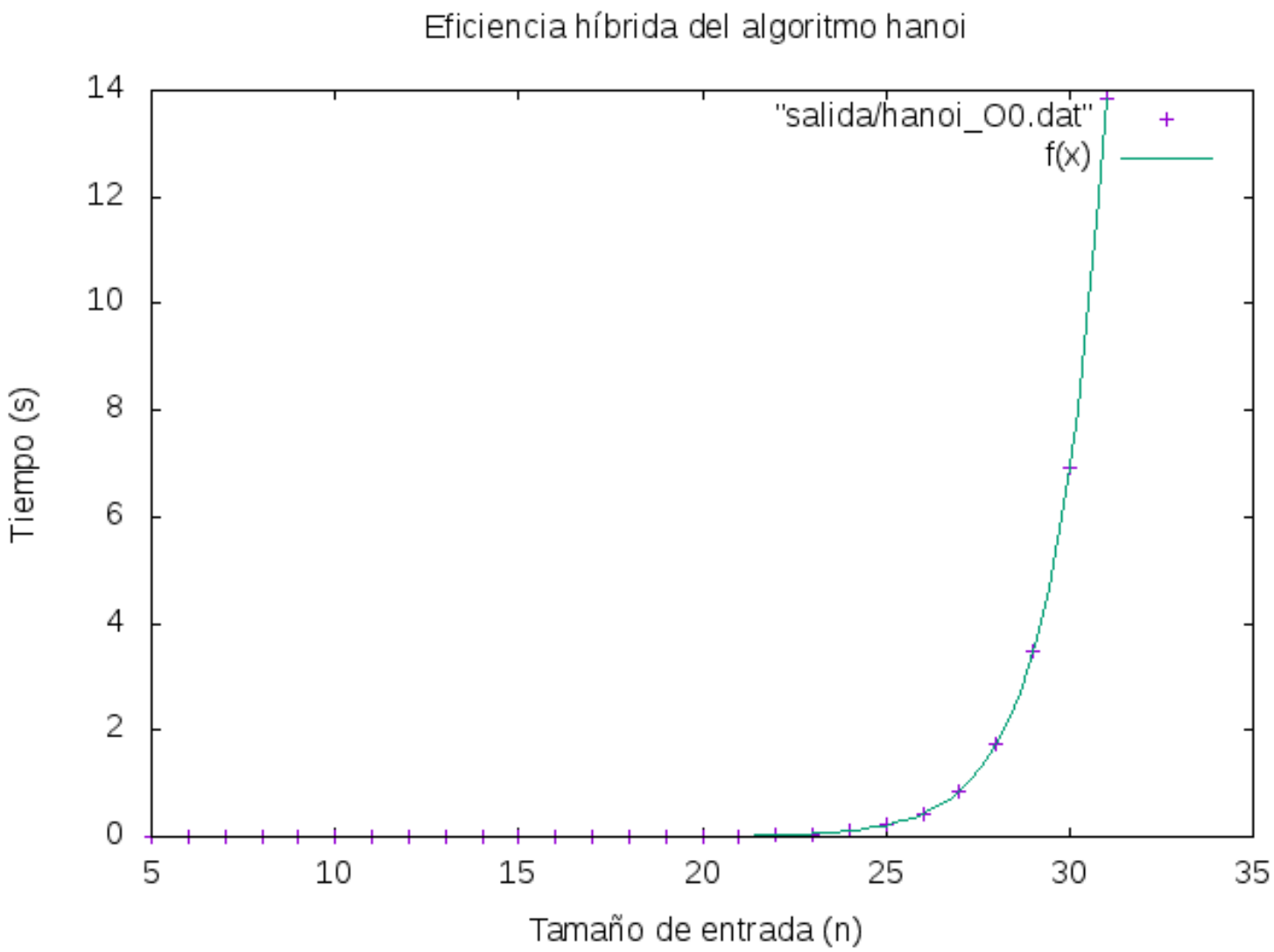


Floyd



Ajuste realizado con la función $f(x) = ax^3 + bx^2 + cx + d$

Hanoi



Ajuste realizado con la función $a2^x$

Comparaciones final