

# Etude de performances

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```
1  $q_1 = \frac{q}{\|q\|}$ 
2 for  $k=1 \rightarrow m-1$  do
3    $w = Aq_k$ 
4   for  $j=1 \rightarrow k$  do
5      $h_{j,k} = \langle w, q_j \rangle$ 
6      $w = w - h_{j,k} \cdot q_j$ 
7    $h_{k+1,k} = \|w\|_2$ 
8    $q_{k+1} = \frac{w}{h_{k+1,k}}$ 
```

**Algorithm 1:** Arnoldi's algorithm



## i5-2520M

- Sandy Bridge
- 3.5 GHz
- Hyperthreaded Dual-core

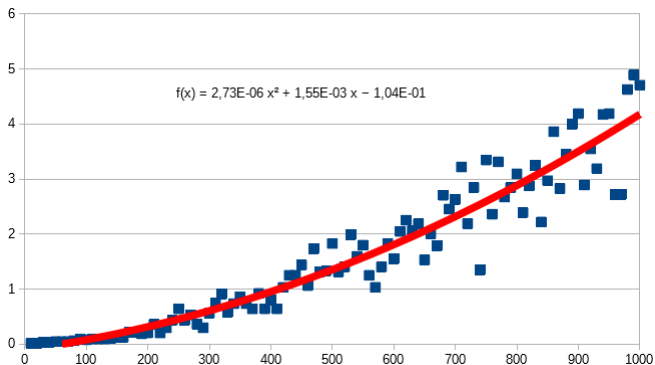


Figure: Performance evaluation on the i5-2520M

## i5-6600k

• Skylake

• 3.9 GHz

• Quad-core

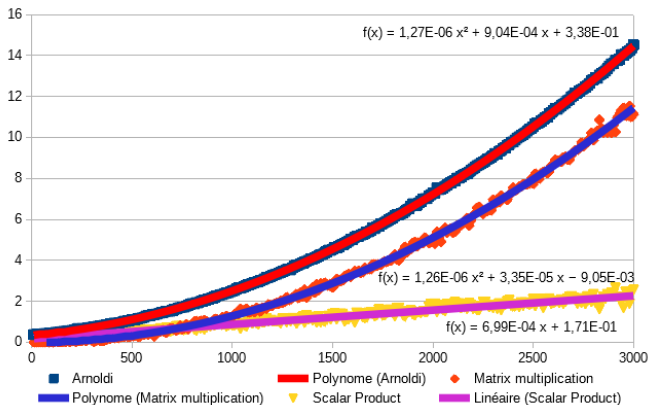


Figure: Performance evaluation on the i5-6600K