
 **Computational
Materials Physics** 

Center for
Molecular
Modeling

Department of
Materials Science
and Engineering

hardware


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<http://molmod.ugent.be>
<http://www.ugent.be/ea/dmse/en>
my talks on Youtube: <http://goo.gl/P2b1Hs>

bragging about your new computer

what do you tell your friends ?

it has ...



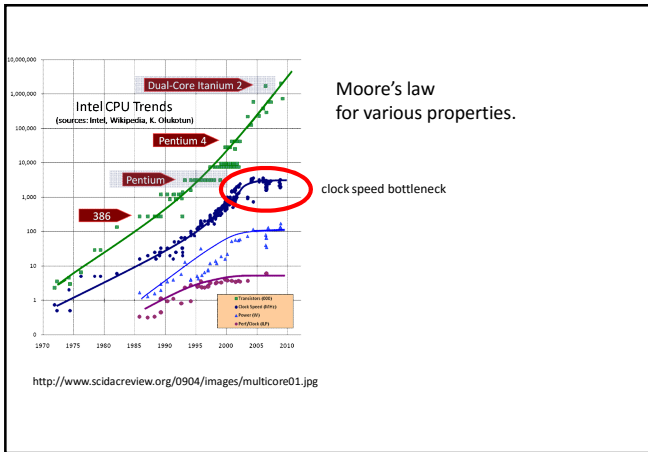
You may want
to pause the video
in order to think about
the previous question.

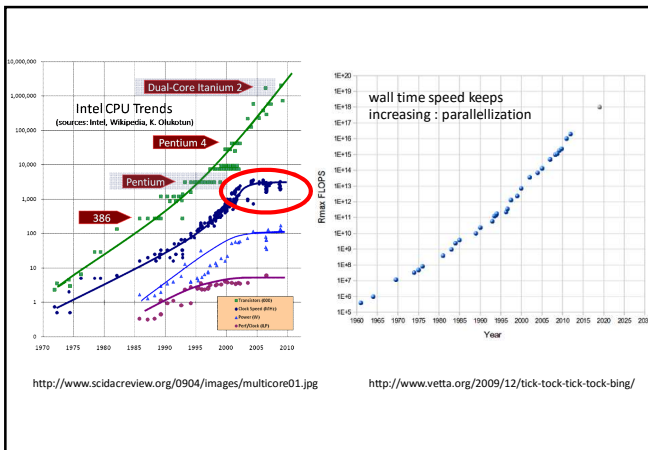
Proceed
once you have
your answer ready.

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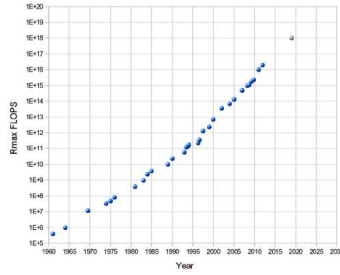
Unique feature of computational science:

“A lab that doubles every 2 years – try that with your microscope or spectrometer. And imagine what it would make possible if it could be done. In computational science, this miracle is reality.” (N. Marzari)

Illustrations:

Top publications of 15 years ago are hands-on exercises nowadays.

One fair hpc system can reproduce the entire computational literature before 1995 in one day.



<http://www.vetta.org/2009/12/tick-tock-tick-tock-bing/>

The Fastest Computer on Earth

any guesses about what, where, why,... ?



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Proceed once you have your answer ready.

list of the 500 fastest computers on Earth: <http://www.top500.org/>
(2 updates per year)

spoiler prevention
