presentation available at

github.com/horosin/multiprocessing-tutorial

Multiprocessing in Python

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for Precision Medicine

CODE AGAINST CANCER

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why?

the talk:

practical example

+

useful features

process

execution context
memory, binary code, resources
contains threads (1+)
has separate address space

thread

smallest unit of execution in OS
shares memory within a process

Process vs thread for computing

process	**thread**
can run in parallel in Python	can run only concurrently in Python (GIL) - no multicore
separate memory space (easy handling, harder communications - IPC)	shared memory space (hard management, easy communication)
larger memory footprint (usually used in tens - hundreds)	lightweight (can be used in hundreds - thousands), in linux 4MB base size

Let’s code


eventory

Q&A