

except

December 7, 2016

```
In [1]: %load_ext Cython
```

```
/data/miniconda3/envs/demo/lib/python3.5/site-packages/Cython/Distutils/old_build_ext.py:10:
" Cython.Distutils.old_build_ext does not properly handle dependencies "
```

1 Void, no exception value

```
In [2]: %%cython
```

```
cdef void foo0():
    return

def main0():
    cdef:
        int i, n=10**6
    for i in range(n):
        foo0()
```

```
In [3]: %%timeit
```

```
main0()
```

The slowest run took 24.80 times longer than the fastest. This could mean that an input was too small or a test was too simple. 10000000 loops, best of 3: 134 ns per loop

2 int, no exception value

```
In [4]: %%cython
```

```
cdef int foo0bis():
    return 1

def main0bis():
    cdef:
```

```

        int i, n=10**6
    for i in range(n):
        foo0bis()

```

In [5]: %%timeit

```

    main0bis()

```

The slowest run took 19.96 times longer than the fastest. This could mean that an i
10000000 loops, best of 3: 133 ns per loop

3 exception value is -1

In [6]: %%cython

```

    cdef int fool() except -1:
        return 1

    def main1():
        cdef:
            int i, n=10**6
        for i in range(n):
            fool()

```

In [7]: %%timeit

```

    main1()

```

The slowest run took 24.74 times longer than the fastest. This could mean that an i
1000000 loops, best of 3: 149 ns per loop

4 exception value is -1, then checked. returning 1

In [8]: %%cython

```

    cdef int foo2() except? -1:
        return 1

    def main2():
        cdef:
            int i, n=10**6
        for i in range(n):
            foo2()

```

In [9]: %%timeit

```

    main2()

```

The slowest run took 22.01 times longer than the fastest. This could mean that an i
100000000 loops, best of 3: 154 ns per loop

5 exception value is -1, then checked. returning -1

```
In [10]: %%cython
```

```
    cdef int foo2bis() except? -1:
        return -1

    def main2bis():
        cdef:
            int i, n=10**6
        for i in range(n):
            foo2bis()
```

```
In [11]: %%timeit
```

```
    main2bis()
```

100 loops, best of 3: 16.7 ms per loop

6 Exception is always checked

```
In [12]: %%cython
```

```
    cdef int foo3() except *:
        return 1

    def main3():
        cdef:
            int i, n=10**6
        for i in range(n):
            foo3()
```

```
In [13]: %%timeit
```

```
    main3()
```

100 loops, best of 3: 14.7 ms per loop

```
In [ ]:
```