



链滴

python 杀死 subprocess 的子进程 (当 shell=True 时)

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来源网站: 链滴

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有如下命令：

```
import subprocess
```

```
command = 'ffmpeg -i input.mp4 output.mp4'
```

```
process = subprocess.Popen(self.command, shell=True, stdout=subprocess.PIPE, stderr=subprocess.STDOUT, universal_newlines=True, encoding='utf-8', startupinfo=subprocess.STARTUPINFO)
```

```
process.kill()
```

因为使用了 shell=True，结束 process 之后，ffmpeg 子进程并不会被结束。

在 Unix Like 系统上，有以下方法：

```
os.killpg(os.getpgid(process.pid), signal.SIGTERM)
```

```
p = subprocess.Popen("exec " + cmd, stdout=subprocess.PIPE, shell=True)
```

```
p.kill()
```

```
# 这样 cmd 就可以继承 shell，被杀掉。
```

上面的方法在 Win 上用不了。

[stackoverflow](#) 上有这一种解法，不过还没尝试：

```
import os
```

```
import sys
```

```
import platform
```

```
from subprocess import Popen, PIPE
```

```
# set system/version dependent "start_new_session" analogs
```

```
kwargs = {}
```

```
if platform.system() == 'Windows':
```

```
    # from msdn [1]
```

```
    CREATE_NEW_PROCESS_GROUP = 0x00000200 # note: could get it from subprocess
```

```
    DETACHED_PROCESS = 0x00000008 # 0x8 | 0x200 == 0x208
```

```
    kwargs.update(creationflags=DETACHED_PROCESS | CREATE_NEW_PROCESS_GROUP)
```

```
elif sys.version_info < (3, 2): # assume posix
```

```
    kwargs.update(preexec_fn=os.setsid)
```

```
else: # Python 3.2+ and Unix
```

```
    kwargs.update(start_new_session=True)
```

```
p = Popen(["C"], stdin=PIPE, stdout=PIPE, stderr=PIPE, **kwargs)
```

```
assert not p.poll()
```

Windows 上第二种方法：

```
from subprocess import Popen
```

```
process = Popen(command, shell=True)
```

```
Popen("TASKKILL /F /PID {pid} /T".format(pid=process.pid))
```

第二种方法新测好用！！！！！！