

# Python: 使用zipfile+io模块在内存中进行zip操作

## 1. 网上参考代码

转自原文：<https://www.cnblogs.com/yaoyu126/p/3700593.html>

```
#!/usr/bin/env python
#coding=utf-8
'''
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    本代码采用MIT许可
    使用io.BytesIO()在内存中压缩,解压缩zip文件
    2014-04-30      yaoyu 创建
'''

import zipfile
import os
import io
from base64      import standard_b64decode
try:
    from .yy_file      import *
except:
    from yy_file      import *

__all__ = ['yy_zip_files2buffer', 'yy_zip_files', 'yy_unzip_buffer2files',
'yy_unzip_base64zipfile']

def yy_zip_files2buffer(files):
    """文件压缩到内存中"""
    buffer = io.BytesIO()
    zfile = zipfile.ZipFile(buffer, 'w', zipfile.ZIP_DEFLATED,
allowZip64=False)
    for i in files:
        if os.path.isfile(i):
            zfile.write(i, os.path.basename(i))
    zfile.close()
    buffer.seek(0)
    return buffer

def yy_zip_files(zipfilename, files):
    """压缩文件列表到zip文件"""
    yy_file_write_bytes(zipfilename, yy_zip_files2buffer(files).read())

def yy_unzip_buffer2files(buffer):
    """从内存压缩文件中读取文件信息"""
    zfile = zipfile.ZipFile(buffer, 'r')
    files = []
    for i in zfile.filelist:
```

```
        files.append((i.filename, zfile.read(i.filename)))
    return files

def yy_unzip_base64zipfile(szFile):
    """从base64压缩的zip文件中读取第一个文件二进制内容"""
    bytescontent = yy_file_read_bytes(szFile)
    for (find, replace) in ((b'&#x0D;', b'\n'),
                            (b'&#x0A;', b'\r')):
        if find in bytescontent:
            bytescontent = bytescontent.replace(find, replace)
    filebytes = standard_b64decode(bytescontent)
    fileinfos = yy_unzip_buffer2files(io.BytesIO(filebytes))
    if fileinfos:
        return fileinfos[0][1]

if __name__ == '__main__':
    sourcedir = '/Volumes/Data/Document/百度云同步
    盘/Develop/Python/Calculator'
    files = (os.path.join(sourcedir, i) for i in os.listdir(sourcedir))
    yy_zip_files(os.path.join(sourcedir, 'dist', 'r.zip'), files)
    #print(yy_unzip_buffer2files(yy_zip_files2buffer(files)))

    filename = '/Volumes/Data/Download/aaa'
    filebytes = yy_unzip_base64zipfile(filename)
    yy_file_write_bytes(filename + '.xls', filebytes)
```

## 2. 读zip文件到内存，然后解压到内存

```
#!/usr/bin/python3

import zipfile
import io

fh = open('ab.zip', 'rb')
fbuf = fh.read() # 读取zip二进制文件内容到buffer[]注意buffer溢出。
fh.close()

fio = io.BytesIO() # 创建一个文件io

fio.write(fbuf) # 将zip二进制内容写入文件io

# zfile = zipfile.ZipFile('ab.zip', 'r')
zfile = zipfile.ZipFile(fio, 'r') # 直接从文件io处操作，而不是指定硬盘上的文件。
files = []
for i in zfile.filelist:
```

```
files.append((i.filename, zfile.read(i.filename)))

for tmp in files:
    print(f'{tmp}')      # output: ('a.txt', b' a\n')
    fname = tmp[0]
    fh = open(fname)
    _buff = fh.read()
    print(f'from file {fname}, read all = {_buff}')
```