aria2批量下载CMIP6数据

1. 从CMIP6官方wget.sh文件中抽取下载的所有**url**

   python脚本处理多个wget.sh文件示例：

```python
import re


\#  提取链接的函数
def extract_links_from_file(file_path):
  with open(file_path, 'r') as file:
    content = file.read()
    links = re.findall(r'http[s]?://(?:[a-zA-Z]|[0-9]|[$-_@.&+]|[!*\$\$,]|(?:%[0-9a-fA-F][0-9a-fA-F]))+', content)
    return links


\#  文件名列表
file_names = ['wget-20240403075821-1.sh', 'wget-20240403075932-2.sh', 'wget-20240403075950-3.sh', 'wget-20240403080017-4.sh', 'wget-20240403080038-5.sh', 'wget-20240403080100-6.sh', 'wget-20240403080116-7.sh', 'wget-20240403080134-8.sh', 'wget-20240403080149-9.sh', 'wget-20240403080204-10.sh', 'wget-20240403080218-11.sh', 'wget-20240403080230-12.sh', 'wget-20240403080243-13.sh']


all_links = []
\#  提取每个文件中的链接
for file_name in file_names:
  links = extract_links_from_file(file_name)
  all_links.extend(links)


\#  保存链接到另一个文档中
with open(**'urls.txt**', 'w') as output_file:
  for link in all_links:
    link = link.replace("'", "")
    output_file.write(link + '\n')
```

2. 安装aria2 **(服务器已安装)**： sudo yum install aria2

3. 下载指令： aria2c -i **urls.txt** -j 16 -d **/file/path**

4. 切后台下载：**nohup** aria2c -i **urls.txt** -j 16 -d /file/path **&**

5. 断点续传：aria2c **-c** -i urls.txt -j 16 -d /file/path

6. 下载到当前目录：aria2c -i urls.txt -j 16 -d **./**

7. 保存下载过程log：aria2c -i urls.txt -j 16 -d /file/path **> out**

8. 全家福指令：**nohup aria2c -c -i urls.txt -j 16 -d ./ > out &**

9. 查询下载记录：tail **out**