# atlas-utils之链接PE双端序列: linkpairs

## 一、atlas-utils linkpairs介绍

#### 功能描述:

atlas-utils linkpairs 链接PE双端序列,中间填充指定数量N。

#### 命令行接口:

```
$ atlas-utils linkpairs
Usage: atlas-utils linkpairs [options] <in1.fq> <in2.fq>
Options:
    -n INT inserting padding number of 'N's, default:[8]
```

#### 可选参数:

-n 整数 序列中间填充的'N'd的数量,默认为8;

### 二、使用场景实例及其用法

示例演示:

示例文件: A-1\_1.fastq, A-1\_2.fastq

```
$ cat A-1_1.fastq | head -n 4
```

\_

HH1CHHHHDFHDHDH?C<DEG/CEHHIHEHCHECFHICHHHHHDHIICHHIEHCHCEGHHIICH?EEHFHHHIECEE?HE? 1GHHHHDHHHHHFFGHHHCHHHII?H?

```
$ cat A-1_2.fastq | head -n 4
```

@HISEQ:483:HLJ2LBCXY:1:1101:7924:2136 2:N:0:CACCGG

GGACTACTTGGGTATCTAATCCTGTTTGCTCCCCACGCTTTCGCACCTCAGCGTCAGTACCGGGCCAGTGAGCCGCCTTC

GCCACTGGTGTTCTTGCGAATATCTACGAGTTTCACCTCTACACTCGCAGTTCCACCTCACCCTCTCCCGGACTCGAGCTCT

CCAGTATCGAAGGCAGTTCTGGAGTTAAGCTCCAGGAGTTCACCCCCGACTTAGAAAGCCGCCTACGTGCGCTTTACGCC

CAGGC

+

 $\label{thm:condition} $$ Hg1eG1F?CGEHGHCHH@GC1<@GEHE?GHHHIHHCHHHHEHE=EFHIHIGEDEC@GHHFH=HD?CCG1D1C?$$ EDCCHCG10C00DGH@CCGHHIGD/C/CECHHEHIIGHECEHHHHHIIGHGFH@HIHEEHCGEHFHFDGHHIHEH,CCHHEHIHIGFABGC@EHICHHHFHHEHH?AG.AFBCHCAHHIHH-$$$$ 

8B@C-.8>=>+6CEC@G@@EHHHCDH=CHE@@D+5@EEF--7CEG##

运行命令: 链接 PE 双端序列。

\$ atlas-utils linkpairs A-1\_1.fastq A-1\_2.fastq | head -n 4

@HISEQ:483:HLJ2LBCXY:1:1101:7924:2136

+

HH1CHHHHDFHDHDH?C<DEG/CEHHIHEHCHECFHICHHHHHDHIICHHIEHCHCEGHHIICH?EEHFHHHIECEE?HE? 1GHHHHDHHHHHFFGHHHCHHHII?H?HHEHCHF1CGHC0DEHEHHD<<FEHHHIGHIC??

HHCGHHHHIHH@FFEEHIHDHHCHHIHIHE@GH-G??EDEGEHIHIICHHC?EHH-6@8-B-

=C,5@@FHHHHHHHCEHH##################IIIIIII##GEC7--

FEE@5+D@@EHC=HDCHHHE@@G@CEC6+>=>8.-C@B8-HHIHHACHCBFA.GA?

 $\label{lem:condition} \begin{tabular}{ll} HHEHHFHHHCIHE@CGBAFGIHIHHHCEHHCC, HEHIHHGDFHFHEGCHEEHIH@HFGHGIIHHHHHECEHGIIHEHHCE \\ C/C/DGIHHGCC@HGD00C01GCHCCDE?C1D1GCC?DH=HFHHG@CEDEGIHIHFE=EHEHHHHCHHIHHHG? \\ EHEG@<1CG@HHCHGHEGC?F1GE1GH \\ \end{tabular}$ 

参数选项1: 设置 -n 参数, 修改中间填充的 N 的数量。

\$ atlas-utils linkpairs -n 20 A-1\_1.fastq A-1\_2.fastq | head -n 4

@HISEQ:483:HLJ2LBCXY:1:1101:7924:2136

+

HH1CHHHHDFHDHDH?C<DEG/CEHHIHEHCHECFHICHHHHHDHIICHHIEHCHCEGHHIICH?EEHFHHHIECEE?HE? 1GHHHHDHHHHHFFGHHHCHHHII?H?HHEHCHF1CGHC0DEHEHHD<<FEHHHIGHIC??

HHCGHHHHIHH@FFEEHIHDHHCHHIHIHE@GH-G??EDEGEHIHIICHHC?EHH-6@8-B-

FEE@5+D@@EHC=HDCHHHE@@G@CEC6+>=>8.-C@B8-HHIHHACHCBFA.GA?

HHEHHFHHHCIHE@CGBAFGIHIHHHCEHHCC, HEHIHHGDFHFHEGCHEEHIH@HFGHGIIHHHHHECEHGIIHEHHCE C/C/DGIHHGCC@HGD00C01GCHCCDE?C1D1GCC?DH=HFHHG@CEDEGIHIHFE=EHEHHHHCHHIHHHG?

EHEG@<1CG@HHCHGHEGC?F1GE1GH

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