
fhead

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Abstract

Program equivalent of **head**, designed for fasta formatted files.

Contents

1 Installation

The simplest way to compile this program is to:

1. Unpack the fhead package (fhead-XXX.tar.gz):

```
tar -xvzf fhead-XXX.tar.gz
```

2. Change the current directory to fhead-XXX:

```
cd fhead-XXX/
```

3. Configure the program for your system (-bindir is optional):

```
./configure --bindir=/absolute/directory/path/fhead-xxx/bin
```

4. Compile the program:

```
make
```

5. Install the program:

```
make install
```

Your binaries should be located in your local bin directory if `--bindir` option has been set. Otherwise installation needs to be carried out with root privileges in order to be installed into `/usr/local/bin` directory.

2 Input files

An example of the input file can be found in `./fhead-xxx/demo` and it should look like this:

file.fa:

```
>Simulated_Sequence
ATGTTTCATCGGTGCGAACTACATCCTGCTTCTCAAGACCTGTCCAAAGTCGGCTACTCTTGCGAATCATGTCGTATATAA
TATACGGCTCGTCTCCCTTA
>Simulated_Sequence
ATGATAACCGCCGGTGAGGGAATGGCATATGTAACGCATATTACCTGACGCAATACAACCAGATCAGCGGCAGGCCTGC
TTTTCCGTGTTTAGAAATC
>Simulated_Sequence
ATGCACAGTGTGCGAGGCAATCGCTTGTTTCATGTTGATCCTGTGACCCCGGAACCTCTTTACCAGTTTCGCAACTATT
TGGATGCTGTTACGGCCAA
...
```

3 Program options

In order to see program options type:

```
./bin/fhead -h
```

Expected output:

```
Usage: ./program [options]
```

```
*****
fhead - head function for fasta files
      by
      Robert Bakaric
```

CONTACT:

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Allowed options:

-h [--help] produce help message
-v [--version] print version information
-i [--input] arg (=) Input fasta file
-f [--fasta] arg (=10) print the first K fasta entries of each fasta file

4 Example

A minimal example demonstrating the usage of fhead program:

```
./bin/fhead -i ./demo/fast.a -f 2
>Simulated_Sequence
ATGTTTCATCGGTGCGAACTACATCCTGCTTCTCAAGACCTGTCCAAAGTCGGCTACTCTTGCGAATCATGTCGTATATAA
TATACGGCTCGTCTCCCTTA
>Simulated_Sequence
ATGATAACCGCCGGTGAGGGAAATGGCATATGTAACGCATATTACCTGACGCAATACAACCAGATCAGCGGCAGGCCTGC
TTTTCCGTGTTTAGAAATC
```

```
cat demo/file.fa | ./bin/fhead -f 3
>Simulated_Sequence
ATGTTTCATCGGTGCGAACTACATCCTGCTTCTCAAGACCTGTCCAAAGTCGGCTACTCTTGCGAATCATGTCGTATATAA
TATACGGCTCGTCTCCCTTA
>Simulated_Sequence
ATGATAACCGCCGGTGAGGGAAATGGCATATGTAACGCATATTACCTGACGCAATACAACCAGATCAGCGGCAGGCCTGC
TTTTCCGTGTTTAGAAATC
>Simulated_Sequence
ATGCACAGTGTGCGAGGCAATCGCTTGTTTCATGTTGATCCTGTCGACCCCGGAACCTCTTTACCAGTTTCGCAACTATT
TGGATGCTGTTACGGCCAA
```

```
./bin/fhead -f 1 < demo/file.fa
>Simulated_Sequence
ATGTTTCATCGGTGCGAACTACATCCTGCTTCTCAAGACCTGTCCAAAGTCGGCTACTCTTGCGAATCATGTCGTATATAA
TATACGGCTCGTCTCCCTTA
```