

# sac lh(1)

## Name

sac lh - print some or all header values from a SAC file

## Synopsis

**sac lh** [-vV] [--help] [-h=<headerList>[,<headerList>...]]... [<sacfileList>...]

## Description

print some or all header values from a SAC file

[View source code here.](#)

[SAC Manual](#)

[SAC file format](#)

## Options

**-h, --headers=<headerList>[,<headerList>...]**

Headers to print

**--help**

display a help message

**-v, --verbose**

Verbose

**-V, --version**

Print version and exit

## Arguments

**[<sacfileList>...]**

SAC files

## Examples

Print the all headers for a SAC file.

> sac1h CO.JSC.00.HHZ.M.2021.061.000000.SAC

CO.JSC.00.HHZ.M.2021.061.000000.SAC (little endian)

```
-----
      delta =      0.01      depmin =      -12345      depmax =      -12345      scale =
503735424      odelta =      -12345
      b =      0.0004      e =      59.9904      o =      -12345      a =
-12345      fmt =      -12345
      t0 =      -12345      t1 =      -12345      t2 =      -12345      t3 =
-12345      t4 =      -12345
      t5 =      -12345      t6 =      -12345      t7 =      -12345      t8 =
-12345      t9 =      -12345
      f =      -12345      resp0 =      -12345      resp1 =      -12345      resp2 =
-12345      resp3 =      -12345
      resp4 =      -12345      resp5 =      -12345      resp6 =      -12345      resp7 =
-12345      resp8 =      -12345
      resp9 =      -12345      stla =      34.2818      stlo =      -81.2597      stel =
103      stdp =      0
      evla =      -12345      evlo =      -12345      evel =      -12345      evdp =
-12345      mag =      -12345
      user0 =      -12345      user1 =      -12345      user2 =      -12345      user3 =
-12345      user4 =      -12345
      user5 =      -12345      user6 =      -12345      user7 =      -12345      user8 =
-12345      user9 =      -12345
      dist =      -12345      az =      -12345      baz =      -12345      gearc =
-12345      sb =      -12345
      sdelta =      -12345      depmen =      -12345      cmpaz =      0      cmpinc =
0      xminimum =      -12345
      xmaximum =      -12345      yminimum =      -12345      ymaximum =      -12345      unused6 =
-12345      unused7 =      -12345
      unused8 =      -12345      unused9 =      -12345      unused10 =      -12345      unused11 =
-12345      unused12 =      -12345
      nzyear =      2021      nzjday =      61      nzhour =      0      nzmin =
0      nzsec =      0
      nzmsec =      8      nvhdr =      6      norid =      -12345      nevid =
-12345      npts =      6000
      nsnpts =      -12345      nwfid =      -12345      nxsize =      -12345      nysize =
-12345      unused15 =      -12345
      iftype =      1      idep =      -12345      iztype =      -12345      unused16 =
-12345      iinst =      -12345
      istreg =      -12345      ievreg =      -12345      ievtyp =      -12345      iqual =
-12345      isynth =      -12345
      imagtyp =      -12345      imagsrc =      -12345      unused19 =      -12345      unused20 =
-12345      unused21 =      -12345
      unused22 =      -12345      unused23 =      -12345      unused24 =      -12345      unused25 =
-12345      unused26 =      -12345
      leven =      1      lspol =      -12345      lovrok =      -12345      lcalda =
-12345      unused27 =      -12345
      kstnm =      JSC      kevnm =      -12345      khole =      00
      ko =      -12345      ka =      -12345      kt0 =      -12345      kt1 =
```

```

-12345
      kt2 =  -12345      kt3 =  =  -12345      kt4 =  -12345      kt5 =
-12345
      kt6 =  -12345      kt7 =  =  -12345      kt8 =  -12345      kt9 =
-12345
      kf =  -12345      kuser0 =  =  -12345      kuser1 =  -12345      kuser2 =
-12345
      kcmpnm =  HHZ      knetwk =  =  C0      kdatrd =  -12345      kinst =
Velocity

```

Print the a and kstnm headers for a SAC file.

```

> saclh -h b,kstnm CO.JSC.00.HHZ.M.2021.061.000000.SAC
CO.JSC.00.HHZ.M.2021.061.000000.SAC:      b =      0.0004      kstnm =  JSC

```