

# mseed3(1)

## Name

mseed3 - list miniseed3 records, or convert from ver 2 records, or set extra headers from StationXML, QuakeML

## Synopsis

```
mseed3 [-vV] [--2to3] [--data] [--help] [--sact3] [--max=<maxRecords>] [-o=<outputFile>] [
--quakeml=<quakemlFile>] [-r=<sourceIdPattern>] [--staxml=<staxmlFile>] [<inputFileList>...]
```

## Description

list miniseed3 records, or convert from ver 2 records, or set extra headers from StationXML, QuakeML

[View source code here.](#)

[miniseed3 specification](#)

## Options

**--2to3**

convert miniseed2 to miniseed3

**--data**

dump timeseries samples, default is to just print headers

**--help**

display a help message

**--max=<maxRecords>**

number of data records to process before ending

**-o, --out=<outputFile>**

Output file (default: print to console)

**--quakeml=<quakemlFile>**

Set standard extra headers for event from quakeml file

**-r, --regex=<sourceIdPattern>**

regular expression of sourceids to search

**--sacto3**

convert SAC to miniseed3

**--staxml=<staxmlFile>**

Set standard extra headers for station from stationxml file

**-v, --verbose**

Verbose

**-V, --version**

Print version and exit

## Arguments

**[<inputFileList>...]**

== Examples

Print headers and dump the timeseries data for a miniseed3 file.

```
> mseed3 --data reference-sinusoid-int32.mseed3
----- read record 0
  FDSN:XX_TEST__V_H_Z, version 1, 2059 bytes (format: 3)
    start time: 2022-156T20:32:38Z
    number of samples: 500
    sample rate (Hz): 0.10
      flags: [00000100] 8 bits
        [Bit 2] Clock locked
      CRC: 0x37223EA2
    extra header length: 0 bytes
    data payload length: 2000 bytes
    payload encoding: 32-bit integer (val: 3)
Data:
      0      6      10      10      6      0
     -7     -12     -12     -8      0      8
     14     15      9      0     -10     -17
    -18     -11      0     13     21     21
     13      0     -16    -26    -26    -16
      1     19     31     31     19     -1
    -23    -37    -37    -23      2     28
     45     45     27     -2    -34    -54
    -54    -32      3     41     65     65
     38      -5     -50    -79    -78    -46
      6     61     95     94     55     -8
    -74    -115   -113    -65     11     90
    138     135      78    -14   -109   -167
   -162    -92      19    132     201     194
    110    -24   -160   -242   -233   -131
     31     193     291     280     156    -39
```

-234	-351	-336	-185	50	284
422	402	220	-63	-343	-508
-483	-262	79	416	612	579
311	-100	-503	-737	-694	-370
125	609	887	832	440	-157
-737	-1068	-997	-522	196	892
1285	1195	620	-245	-1080	-1547
-1432	-736	306	1306	1862	1716
874	-381	-1580	-2241	-2057	-1037
473	1912	2697	2465	1231	-588
-2313	-3245	-2954	-1460	730	2797
3905	3539	1732	-905	-3383	-4699
-4240	-2053	1121	4091	5655	5080
2433	-1387	-4947	-6804	-6086	-2884
1714	5981	8186	7291	3416	-2118
-7231	-9848	-8734	-4046	2614	8742
11848	10461	4791	-3225	-10568	-14253
-12530	-5671	3975	12774	17146	15006
6711	-4897	-15440	-20625	-17972	-7940
6029	18661	24808	21521	9390	-7418
-22552	-29840	-25771	-11101	9123	27253
35890	30858	13120	-11212	-32932	-43165
-36947	-15501	13774	39791	51913	44235
18308	-16912	-48077	-62431	-52957	-21614
20756	58084	75077	63396	25508	-25462
-70169	-90282	-75887	-30092	31222	84764
108561	90834	35484	-38269	-102388	-130535
-108719	-41825	46887	123670	156952	130117
49276	-57425	-149366	-188707	-155716	-58028
70304	180390	226878	186341	68302	-86041
-217845	-272760	-222974	-80353	105265	263063
327906	266792	94480	-128742	-317647	-394187
-319201	-111030	157403	383537	473846	381879
130403	-192385	-463067	-569581	-456835	-153063
235071	559057	684630	546467	179546	-287144
-674908	-822886	-653642	-210470	350653	814722
989021	781782	246545	-428093	-983445	-1188650
-934978	-288589	522495	1187046	1428517	1118118
337539	-637550	-1432720	-1716720	-1337035	-394463
777745	1729148	2062985	1598702	460582	-948539
-2086795	-2478993	-1911440	-537283	1156565	2518285
2978771	2285191	626136	-1409890	-3038834	-3579162
-2731822	-728915	1718317	3666796	4300394	3265502
847610	-2093759	-4424295	-5166752	-3903146	-984449
2550691	5338008	6207395	4664946	1141905	-3106699
-6440095	-7457335	-5575000	-1322711	3783146	7769327
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-7960483	-1766591	5606698	11305779	12927085	9511188
2036388	-6823565	-13637248	-15527597	-11363049	-2342921
8303023	16448701	18650486	13574359	2689991	-10101451
-19838792	-22400528	-16214653	-3081429	12287276	23926422

26903486	19366868	3520958	-14943543	-28854882	-32310300
-23129912	-4011981	18171020	34796852	38802124	27621734
4557312	-22091966	-41960428	-46596368	-32982970	-5158786
26854700	50596356	55953936	39381288	5816755	-32639134
-61006772	-67187912	-47016556	-6529407	39663472	73555720
80673992	56127012	7291880	-48192344	-88681824	-96862976
-66996584	-8095098	58546628	106913504	116295752	79963616
8924266	-71115376	-128887384	-139621280	-95431240	-9756926
86370256	155370416	167618160	113879744	10560464	-104883016
-187286448	-201220448	-135881248	-11288915	127346648	225748352
241548720	162117184	11878901	-154601040	-272096608	-289947168
-193399040	-12244462	187663984	327945824	348028160	230693120
12270520	-227768752	-395240640	-417725792	-275149856	-11804613
276409568	476323104	501359776	328138752	10646480	-335396608
-574013824	-601712320	-391289856	-8534971	406922720	691709696
722120128	466542944	5131610	-493643872	-833501120	-866584896
-556206272	0				