

Revisions

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-----  version 1.6  -----
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```

Three important things has been changed compared to ealier versions.

- (1) - Dynamic memory allocation was used whenever possible. This means that if there is not enough memory available when running sonic, for example because the number of buffers and files as given in the config.sys files are too large, there will be a message before the program is terminated.
- (2) - If you choose the second plot option (epicentral distance vs. time) and you would like to write the data to hard disc after zooming, the header time was not always correct. This problem has been solved now.
- (3) - When writing data to hard disc only the poles and zeroes, as they appear in the second datalog, are written to hard disc. So there is no check whether all conjugated poles and zeroes are present, as was done (not always correct !) in previous versions.

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-----  version 1.7  -----
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Sonic is now, hopefully, independent of MS-DOS. Searching for directories and eventfiles on the CD ROM is now done by some built-in C subroutines like `_dos_findfirst` and `_dos_findnext`. We thank J. Virieux (IPG, France) for his work and suggestions concerning this point.

System call "CLS" has been replaced by: `clearscr()` and subroutine `rearrange` has been deleted. The sorting is now done by `qsort`.

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-----  version 1.71  -----
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For the User of sonic nothing has been changed.

From the programmers point of view the important improvement of this version is the extended use of dynamic memory allocation (see for example arrays `datablk`, `mant` and gain in module `rddata.c`).

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-----  version 1.72  -----
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- (1) - A problem occured after zooming for a time window, when choosing the option 'epicentral distance vs. time ' for a lot of stations . This has been solved now.
- (2) - Sonic1 now gives you the possibility to write station and/or datalogs to hard disc. File names will be like `ANMO_ST.LOG`, `ANMO_LP.D1`, `ANMO_LP.D2` etc.
- (3) - You can determine the length of the time window and the offset from eventtime yourself, now, if you choose the 'epicentral distance vs. time ' option. This will speed up the making of the plot, especially

for large data sets.

- (4) - In sonic2 the values of the parameters, as given by the user, will keep their values when continuing the selection. This will save you the effort of typing them again and again ...

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----- version 1.81 -----  
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```

- (1) - It's possible now to determine the length of the time window and the offset from eventtime yourself, for the "amplitude vs. time" option .
If you will get the message: NO DATA FOR THIS DATA TYPE , probably the offset is too small, or there are indeed no data.

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----- version 1.92 -----  
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```

- (1) - Data can be accessed much faster by putting them on your hard disc. Instead of typing the device letter you should give the pathname, relative or absolute, to your data directory. Subdirectories should be the same as on CD-ROM.
- (2) - Bandpass and highpass filtering options are built in. Simple IIR filters will do the job. Warning: a WRite option after a BP-filter or HP-filter option will only write the RAW data to hard disc !