NAME

  getwfdata – generate an ASCII dump of waveforms with downsampling

SYNOPSIS

  getwfdata [**−h**] [**−f**freq] [**−r**start**,**end] runfile wfnum ... > output.csv

DESCRIPTION

  Getwfdata dumps out the data of one or more waveforms from a *runfile*, as comma-separated ASCII values. The *runfile* argument, which must be specified, gives the name of the run file or analysis parameter file for the run of data to be dumped. One or more *wfnum* arguments give the waveform numbers for the waveforms to be dumped. The output goes to the standard output, which should be redirected to a file. A file name suffix of **.csv** is recommended for this output file. Output values are in **mV** by default, unless another type of units is selected for A/D sample display in the runfile's analysis parameters.

 Options

  −h Specifies that an extra header should be added to the output file, showing the time range and frequency requested or assumed.

  −f*freq*

    Specifies the frequency to which you want the data to be downsampled. By default, it will output all data at the effective sampling rate of the first waveform specified.

  −r*start***,***end*

    Specifies the start and end time in the *runfile*, in seconds. The default is the whole run, or whatever analysis range is selected in the analysis parameters. To override any analysis range set in the parameters and ensure the whole run is dumped, you can specify **−r0,max** or **−rall**.

  −−help

    Causes the program to output a summary of command usage and options.

EXAMPLES

  getwfdata −f10 apjedro4damp02 5 6 > apj402-56.csv

    Extract waveforms 5 and 6 from a runfile at a sample frequency of 10 Hz.

  getwfdata −r0,20s apjedro4damp02 7 > apj402-7.csv

    Extract first 20 seconds of waveform 7 at its full rate.

SEE ALSO

  analysis(1), dumprun(1), crosscorr(1)

  http://www.scrc.umanitoba.ca/doc/tutorial/tutorial_14.html

    for more examples using getwfdata in a cross-correlation analysis.