Status of Data Formats for the NERSP database

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The NERSP seismic database consists of data from various stations and networks throughout Northeastern Russia. Some of these data have converters that enable us to convert and store data in miniseed format. Each format has some problems.

Common Formats within the database

.OUT ( revision 1 – viseis.txt) – No converter available yet

.OUT (revision 2 –vdaq.txt) – Converter available in Python but with severe timing bugs.

.DAT (Symres revision 1: PAR4CH) – No converter available yet

.DAT (Symres revision 2: USB4CH) – Converters available in JACA and Python.

.BTG – no converter available

.CHL – no converter available

.1C – no converter available

.wsg

.W05

.cd11 (station TOK) – no converter available

Converters:

DAT2MSEED.py : Converts USB4CH DAT files into miniseed. This converter appears to create solid miniseed files. It is used by command line prompt and converts files by directory. It does not crawl or convert single files. It does not concantenate the files and creates a single series of miniseed channel files for each .DAT it finds.

PAR2MSEED.py : Converts PAR4CH DAT files to miniseed. This converter is not working at this time.

OUT2MSEED.py: Converts John Rogers .OUT files with .vdaq.dat headers. This converter still has bugs related to calculating sample rate and start time, so the miniseed file start times are not quite correct and feature some overlap, & gaps, and erroneous start times here & there.