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 WINDOWS; It converts to miniseed and takes command line arguments for target input directory, network name, and output file directory. This code has been extensively revised as of 2018 to account for rampant timing errors within older datasets. It also creates merged miniseed files by utilizing a local temporary file that speeds up conversion when the source data is located on a network.

.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 now accounts for the timing glitches. Timing glitches have mostly been fixed. Fatal files are moved into a ‘quarantine’ folder.