

2023 - RELAX: Today's Code and Data

There have been NO CHANGES to the RELAX code since its release with EPICS2014. The only change is to the input EADL data (ENDL.IN), which now includes the latest EADL2017 binding energies (identical for EADL2023), which will obviously change the RELAX calculated results.

First Run the RELAX Test Problem

I STRONGLY RECOMMEND that you first run the RELAX test problem that is included with this package. Simply run the executable for your type of computer: executables are supplied for Windows/PC, LINUX (32 and 64 bit), and MAC. If none run on your computer you can create an executable using the FORTRAN source code and any FORTRAN compiler; there are now a number of FREE FORTRAN compilers available on the web.

After the run see the output report in RELAX.LST that will show you how the example input was interpreted and the results of the RELAX calculation. Results are also provided in the PLOTTAB format, so that you can view the results graphically.

Data Files

As distributed the data files are in Windows/PC format, which includes both a carriage return and a linefeed at the end of each line. Other computer systems may include only one of these. I STRONGLY RECOMMEND that you ensure the format of these files is compatible with your computer system. This is relatively easy to do: Open each file using a text editor, make a trivial change (insert one character and then delete it), and save the file, which should then be in the correct format for your computer; this includes, RELAX.INP
ENDL.IN

Documentation and Example Results

By 2014 the RELAX code has been completely re-written in order to modernize the code and also to allow it to use the EPICS2017 data (identical for 2023), in the Extended ENDL (ENDLX) Format. The latest documentation for using the code is provided by comment lines at the beginning of the code itself. But the original documentation for the code still contains valuable example results and for your convenience it is included here.

PLEASE be sure to understand this,

DOCUMENTATION = Comment in current code – NOT THE REPORT
EXAMPLES = In original documentation using OLDER data –
After you run the example the CURRENT results
based on using the 2017 data will be in RELAX.LST.