

# Program Flow in readJDX

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This vignette is based on readJDX version 0.3.474.

## Program Flow

readJDX is coded in such a way that it should be easy to add features. Contributions to improve or expand the package, including pull requests, are always welcome! Table 1 shows the overall flow of the function calls. Only a couple of these functions are exported, so take a look at the source code for documentation. Be sure to check out the *MiniDIFDUP\_1* and *MiniDIFDUP\_2* vignettes for additional information about the JCAMP-DX file structure and how readJDX functions extract the data.

**Table 1. Program Flow.**

function	input
readJDX	file name
- findDataTables	character vector: all lines from original file
- extractParams	character vector: just the metadata
- processDataTable	character vector: a single VL
- - decompressXYY	character vector: a single VL
- - - decompLines	character vector named with line numbers: a single VL
- - - - getJDXcompression	character vector named with line numbers: a single VL
- - - - unSQZ	*list* of character vectors from a single VL; the character vectors are named with the ASDF mode, the list is named with line numbers
- - - - insertDUPS	*list* of character vectors from a single VL; the character vectors are named with the ASDF mode, the list is named with line numbers
- - - - - repDUPS	a string of length one (named?)
- - - - deDIF	*list* of character vectors from a single VL; the character vectors are named with the ASDF mode, the list is named with line numbers
- - - - - unDIF	character vector from one line of VL, named by ASDF code
- - - - yValueCheck	*list* of character vectors from a single VL; the character vectors are named with the ASDF mode, the list is named with line numbers

*Note:*

VL stands for variable list, as defined in the JCAMP-DX standard. For examples see the *\*MiniDIFDUP\_1\** vignette.