mmCIF Applications at the RCSB Protein Data Bank

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The RCSB Protein Data Bank (www.pdb.org) has developed a variety of software tools to manage mmCIF data. These applications include validating parsers, format translators, database loaders, and data extraction tools. The latter suite of extraction tools, pdb_extract[1], automates the collection of key data items from most popular X-ray and NMR structure determination applications. These data are assembled into an mmCIF data file ready for PDB deposition that can be submitted using the AutoDep Input Tool (ADIT). The use of these tools in automating the PDB deposition and validation process will be described.

[1] Yang H., Guranovic V., Dutta S., Feng Z., Berman H.M., Westbrook J.D., *Acta Cryst.,* 2004, **D60**, 1833.
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