

# IRT Scale Scores in C++

(IRTScore special version for 840)

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(The modified version of) IRTScore (for 840):

- Reads a file of IRT (graded model) item parameters
- Computes response pattern EAPs, response pattern MAPs, and summed-score EAPs...
- Either user-entered response patterns or (thousands of) simulated response patterns (to evaluate the performance of the estimators)

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The structure of the C++ is:

**main.cp** calls procedural routines in

**io.cp (.h)** which depend upon the class

**IRT08ss.cp (.h)** which is a small version of our “IRT” classes, for “tests”, made up of items, each of which is an instance of the class

**itemstuff.cp (.h)** which is a container for IRT information about each item

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Purposes in talking about these things:

**io.cp (.h)** contains some interesting input-output

**IRT08ss.cp (.h)** shows basic (scoring) IRT computations (including MAP and EAP) in C++

**itemstuff.cp (.h)** illustrates the use of C++ classes to encapsulate data, with flexible dynamic allocation

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