

ETACHA Batch Mode Update Details

Last update set: versions 4.8.14 through 4.9.1 | Date: 21-AUG-2026

Summary

Batch-result handling was extended from the 4.8.16 update through version 4.9.1. The CSV summary remains written beside the selected .betacha file with the resETACHA filename marker, now includes additional calculated columns and charge-fraction outputs, uses stable ibin radio-button mappings, logs the selected ibin value, and exposes the Batch File and Model Selection manuals from the Help menu.

User-visible behavior

- Result CSV location: the summary CSV is saved in the same folder as the selected .betacha batch file.
- Result CSV name: the marker changed from results to resETACHA.
- Example output: 120Ce_011_144Sm_resETACHA_v3i0e0.csv.
- Completion message: reports all completed calculation sets and the saved CSV file path.
- Quiet mode behavior: with /q or -q, the completion message closes after 5 seconds and then the application closes.
- Interactive behavior: without /q or -q, the completion message remains open until the user closes it.
- CSV schema: QM was removed; Kp(1) was inserted after density; dQ(calc-set)=QF-Qb was inserted after iQmax.
- Charge fractions: Fq0 through Fq9 are appended as fractions, where Fq0 corresponds to charge Zb, Fq1 to Zb-1, and so on through Zb-9.
- PWBA correction selection: empirical saturation writes ibin=0, binding correction writes ibin=1, and no empirical/no binding writes ibin=2.
- Log output: generated text logs now include the selected PWBA correction parameter ibin value.
- Help menu: ETACHA Batch File Manual and ETACHA Model Selection Manual links are available from the Help menu.

Version history

Version	Date	Details
4.8.14	20-AUG-2026	Batch result CSV files are saved next to the batch file; completion message reports completed set count and result CSV path.
4.8.15	20-AUG-2026	Batch result CSV file names use resETACHA instead of results.
4.8.16	20-AUG-2026	Batch completion message closes after 5 seconds only when /q or -q is used.
4.8.17	21-AUG-2026	Batch result CSV excludes QM and adds dQ(calc-set)=QF-Qb after iQmax.
4.8.18	21-AUG-2026	Batch result CSV adds Kp(1) after density.
4.9.0	21-AUG-2026	ibin radio button IDs are assigned by physics meaning and logged explicitly; batch result CSV adds Fq0-Fq9 charge fractions.
4.9.1	21-AUG-2026	ETACHA Batch File and ETACHA Model Selection manual links are available from the Help menu.

Files updated

File	Purpose
g_Etacha4/win/e_mainwindow.cpp	Batch CSV path/name construction, completion-message timer behavior, CSV column changes, Fq0-Fq9 output, and explicit ibin button ID mapping.

g_Etacha4/source/e_Etacha4_print.cpp	Generated text logs include the selected PWBA correction parameter ibin value.
g_Etacha4/win/e_actionsPrintAbout.cpp	Help-menu handlers open the ETACHA Batch File and Model Selection manuals.
g_Etacha4/win/e_mainwindow.ui	Help menu exposes the manual actions.
g_Etacha4/win/e_mainwindow.h	Slots declared for the manual actions.
g_Etacha4/win/e_ftype.h	Application version string, date, and changelog entries.
ETACHA4.pro	Project VERSION synchronized with the application version.
build/.../ETACHA4_resource.rc	Generated Windows resource version synchronized by rerunning qmake for the release build folder.

Current synchronized version

- Application header: Version 4.9.1, 21-AUG-2026.
- Project file: win32 VERSION = 4.9.1.1; non-Windows VERSION = 4.9.1.
- Generated Windows resources: FILEVERSION and PRODUCTVERSION are 4,9,1,1.