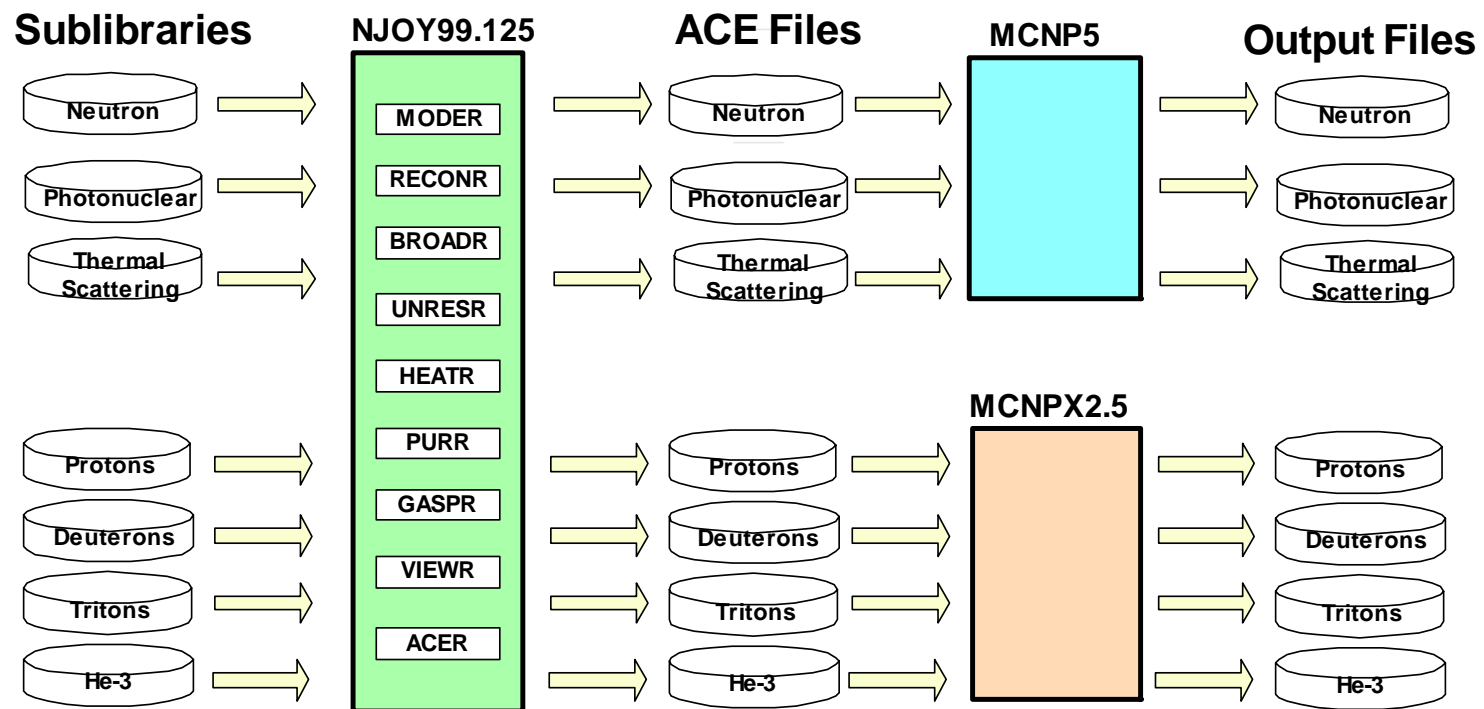


Data Verification

PROCEDURE

1. Patched NJOY.
NJOY99.0 + Patch-125 + Precision-Patch (*Linux only*) = NJOY99.125
2. Processed individual materials with NJOY99.125 and MCNP5/MCNPX2.5



Data Verification

RESULTS

- Neutron: 392 materials passed, Es-253 (incomplete) crashed NJOY
- Photonuclear: all 163 materials passed
- Proton: 47 materials passed, C-13 generated error message/crashed NJOY
- Thermal Scattering: all 20 materials passed
- Deuterons: all 5 materials passed
- Tritons: all 3 materials passed
- He-3: all 2 materials passed

ADDITIONAL NJOY PATCHES SUBMITTED BY A.TRKOV

- **ACER patch**: fixes multiplicity flag in the TYR block for MT18 in MF6; essential for correct processing of Th-232, Pa-231, Pa-233
- **ERRORR patch**: restore processing of derived covariances involving MT 850-874 series; needed to correctly process the covariances of Th-232 above the resonance range.

