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# Geant4-MT for the EM WG

## Status

This is a list provided by Andrea of all files where G4MT transformation tool as perfumed some modifications.

It shows the list of files that have been transformed, the number next to each entry is the number of instances that the MT keyword G4MTThreadLocal appears in that file (to give an idea of how much the code has been touched).

As reference the Hadronic WG has a twiki containing some material on developing for G4MT (official documentation will be part of G4 ver.10 documentation for developers), in the meantime you can take a look:

<https://twiki.cern.ch/twiki/bin/view/Geant4/HadronicsMTNotes>

## List

--In processes-electromagnetic-lowenergy

```
./processes/electromagnetic/lowenergy/include/G4AtomicTransitionManager.hh      1
./processes/electromagnetic/lowenergy/include/G4Generator2BN.hh                2
./processes/electromagnetic/lowenergy/include/G4PenelopeOscillatorManager.hh    1
./processes/electromagnetic/lowenergy/include/G4QAOLowEnergyLoss.hh            12
./processes/electromagnetic/lowenergy/include/G4hZiegler1985p.hh               1
./processes/electromagnetic/lowenergy/src/G4AtomicTransitionManager.cc          1
./processes/electromagnetic/lowenergy/src/G4Generator2BN.cc                    2
./processes/electromagnetic/lowenergy/src/G4IonChuFluctuationModel.cc          1
./processes/electromagnetic/lowenergy/src/G4IonYangFluctuationModel.cc         1
./processes/electromagnetic/lowenergy/src/G4PenelopeComptonModel.cc            2
./processes/electromagnetic/lowenergy/src/G4PenelopeOscillatorManager.cc       1
./processes/electromagnetic/lowenergy/src/G4QAOLowEnergyLoss.cc                12
./processes/electromagnetic/lowenergy/src/G4VhElectronicStoppingPower.cc      1
./processes/electromagnetic/lowenergy/src/G4hICRU49He.cc                       3
./processes/electromagnetic/lowenergy/src/G4hICRU49Nuclear.cc                 1
./processes/electromagnetic/lowenergy/src/G4hICRU49p.cc                       3
./processes/electromagnetic/lowenergy/src/G4hIonEffChargeSquare.cc            3
./processes/electromagnetic/lowenergy/src/G4hParametrisedLossModel.cc         4
./processes/electromagnetic/lowenergy/src/G4hZiegler1985p.cc                  1
```

--In processes-electromagnetic-dna-management

```
./processes/electromagnetic/dna/management/include/G4AllITManager.hh          1
./processes/electromagnetic/dna/management/include/G4IT.hh                    2
./processes/electromagnetic/dna/management/include/G4ITManager.hh             1
./processes/electromagnetic/dna/management/include/G4ITManager.icc           1
./processes/electromagnetic/dna/management/include/G4ITModelProcessor.hh      1
./processes/electromagnetic/dna/management/include/G4ITTrackHolder.hh         1
./processes/electromagnetic/dna/management/include/G4ITTransportationManager.hh 1
./processes/electromagnetic/dna/management/include/G4ITType.hh               1
./processes/electromagnetic/dna/management/include/G4VITProcess.hh            1
./processes/electromagnetic/dna/management/include/G4VITTimeStepper.hh        2
./processes/electromagnetic/dna/management/src/G4AllITManager.cc              1
./processes/electromagnetic/dna/management/src/G4IT.cc                       1
./processes/electromagnetic/dna/management/src/G4ITModelProcessor.cc          1
./processes/electromagnetic/dna/management/src/G4ITNavigator.cc               2
./processes/electromagnetic/dna/management/src/G4ITTrackHolder.cc            1
./processes/electromagnetic/dna/management/src/G4ITTransportation.cc          4
./processes/electromagnetic/dna/management/src/G4ITTransportationManager.cc  1
./processes/electromagnetic/dna/management/src/G4ITType.cc                   1
./processes/electromagnetic/dna/management/src/G4VITProcess.cc                1
```

## LoweG4MT < Geant4 < TWiki

```
./processes/electromagnetic/dna/management/src/G4VITTimeStepper.cc      2

--In processes-electromagnetic-dna-molecules-management

./processes/electromagnetic/dna/molecules/management/include/G4MolecularConfiguration.hh      1
./processes/electromagnetic/dna/molecules/management/include/G4Molecule.hh                  3
./processes/electromagnetic/dna/molecules/management/include/G4MoleculeCounter.hh          2
./processes/electromagnetic/dna/molecules/management/include/G4MoleculeHandleManager.hh    1
./processes/electromagnetic/dna/molecules/management/include/G4MoleculeID.hh              2
./processes/electromagnetic/dna/molecules/management/include/G4VMolecularDecayDisplacer.hh  1
./processes/electromagnetic/dna/molecules/management/src/G4MolecularConfiguration.cc        1
./processes/electromagnetic/dna/molecules/management/src/G4Molecule.cc                  2
./processes/electromagnetic/dna/molecules/management/src/G4MoleculeCounter.cc           2
./processes/electromagnetic/dna/molecules/management/src/G4MoleculeHandleManager.cc      1
./processes/electromagnetic/dna/molecules/management/src/G4MoleculeID.cc                1
./processes/electromagnetic/dna/molecules/management/src/G4VMolecularDecayDisplacer.cc     1

--In processes-electromagnetic-dna-molecules-types

./processes/electromagnetic/dna/molecules/types/include/G4Electron_aq.hh                  1
./processes/electromagnetic/dna/molecules/types/include/G4H2.hh                          1
./processes/electromagnetic/dna/molecules/types/include/G4H2O.hh                         1
./processes/electromagnetic/dna/molecules/types/include/G4H2O2.hh                       1
./processes/electromagnetic/dna/molecules/types/include/G4H3O.hh                        1
./processes/electromagnetic/dna/molecules/types/include/G4Hydrogen.hh                   1
./processes/electromagnetic/dna/molecules/types/include/G4OH.hh                         1
./processes/electromagnetic/dna/molecules/types/src/G4Electron_aq.cc                    1
./processes/electromagnetic/dna/molecules/types/src/G4H2.cc                            1
./processes/electromagnetic/dna/molecules/types/src/G4H2O.cc                           1
./processes/electromagnetic/dna/molecules/types/src/G4H2O2.cc                          1
./processes/electromagnetic/dna/molecules/types/src/G4H3O.cc                           1
./processes/electromagnetic/dna/molecules/types/src/G4Hydrogen.cc                       1
./processes/electromagnetic/dna/molecules/types/src/G4OH.cc                            1

--In processes-electromagnetic-dna-utils.txt

./processes/electromagnetic/dna/utils/include/G4DNAChemistryManager.hh                  1
./processes/electromagnetic/dna/utils/include/G4DNADamages.hh                          1
./processes/electromagnetic/dna/utils/include/G4DNAGenericIonsManager.hh                1
./processes/electromagnetic/dna/utils/include/G4DNAMolecularMaterial.hh                 1
./processes/electromagnetic/dna/utils/include/G4DNAMolecularReactionTable.hh           1
./processes/electromagnetic/dna/utils/src/G4DNAChemistryManager.cc                     1
./processes/electromagnetic/dna/utils/src/G4DNADamages.cc                             1
./processes/electromagnetic/dna/utils/src/G4DNAGenericIonsManager.cc                   1
./processes/electromagnetic/dna/utils/src/G4DNAMolecularMaterial.cc                     1
./processes/electromagnetic/dna/utils/src/G4DNAMolecularReactionTable.cc               1
```

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