Updates for SOFA Release 11 : 2015 February 2
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Changes/updates fall into the following categories:

1. A leap second at the end of June 2015, requires updates to the
   iau_DAT (dat.for) and iauDat (dat.c) routines.

2. Introduction of two new routines, G2ICRS and ICRS2G (both Fortran
   and C), creating a new category entitled "Galactic coordinates".

3. A few minor changes to a few routines to remove some compiler
   warnings; (1) Changes in the test for zero in C2IXYZ, GC2GDE, RM2V,
   RV2M, and multithread precaution in CAL2JD in the Fortan version only.

4. Updated test programs t_sofa_f.for and t_sofa_c.c. Updated the
   include header file sofa.h.

5. Documentation revision, moving the routines STARPV and PVSTAR
   (category Star Space Motion) and PMSAFE and STARPM (category Star
   Catalog Conversions) into Astrometry. This results in the removal
   of the category Star Space Motion.

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Fortran:
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iau_C2IXYS   there was a test for zero that could potentially cause
              compiler warnings. The test has been changed.

iau_CAL2JD   a value in a DATA-initialized array was being changed
              during execution. This had consequences for multi-thread
              code. The algorithm has been changed to avoid the
              difficulty.

iau_DAT   a leap second is now required in UTC for 2015 June 30.

iau_G2ICRS   transformation from Galactic Coordinates to ICRS. A new
              routine.

iau_GC2GDE   there was a test for zero that could potentially cause
              compiler warnings. The test has been changed.

iau_ICRS2G   transformation from ICRS to Galactic Coordinates. A new
              routine.

iau_RM2V   there was a test for zero that could potentially cause
              compiler warnings. The test has been changed.

iau_RV2M   there was a test for zero that could potentially cause
              compiler warnings. The test has been changed.

t_sofa_f   program updated with the two new Galactic Coordinate
              tansformations.

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ANSI C:
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iauC2ixys   there was a test for zero that could potentially cause
              compiler warnings. The test has been changed.

iauDat   a leap second is now required in UTC for 2015 June 30.

iauG2icrs   transformation from Galactic Coordinates to ICRS. A new
              routine.

iauGc2gde   there was a test for zero that could potentially cause
              compiler warnings. The test has been changed.

iauIcrs2g   transformation from Galactic Coordinates to ICRS. A new

routine.

iauRm2v   there was a test for zero that could potentially cause
               compiler warnings. The test has been changed.

iauRv2m   there was a test for zero that could potentially cause
               compiler warnings. The test has been changed.

sofa.h   addition of the new functions, removal of duplicate
               functions. All functions are listed in the categories
               that are given on the website and in the manual.

t_sofa_c   program updated with the two new Galactic Coordinate
               tansformations.

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Documentation:
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intro.lis   Minor change.

sofa_lib.lis   New routines added. The routines STARPV, PVSTA, PMSAFE and
               STARPM into Astrometry. Category Star Space Motion deleted.
               This list harmonised with sofa.h and the website.

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End of Updates
2015 February 9
CYH/SAB

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