Changes for SOFA Issue: 2009-12-31

New routines

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iau_EFORM    a,f for a nominated Earth reference ellipsoid
iau_GC2GD    geocentric to geodetic for a nominated ellipsoid
iau_GC2GDE   geocentric to geodetic given ellipsoid a,f
iau_GD2GC    geodetic to geocentric for a nominated ellipsoid
iau_GD2GCE   geodetic to geocentric given ellipsoid a,f
```

Miscellaneous

Code now includes SOFA release ID.

Where appropriate, Julian and Besselian epochs such as J2000 and B1900 have had the conventional ".0" added. About one third of the routines were affected by this cosmetic change.

board.lis

Change in email address.

copyr.lis

Revised copyright/license statement.

dat.for

Variable DAT changed to DA to avoid clash with abbreviated subroutine name.

fk5hz.for

Corrections to preamble comments.

nut00a.for

Cosmetic.

starpv.c

Code improvements to avoid testing floating point quantities for equality.

trxp.for

Variable TR changed to RI to avoid clash with abbreviated subroutine name.

trxpv.for

Variable TR changed to RI to avoid clash with abbreviated subroutine name.

t_sofa_f.for

Expanded and improved; also unused variables eliminated in order to avoid compiler warnings.

title.lis

Updated.

21/12/2009

Revisions - 25/01/2010
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1) bp00.c, bpn2xy.c, c2i00a.c, c2i00b.c, c2ibpn.c, pn00a.c, pn00b.c, pn00.c, s00a.c, s00b.c, s00.c, s06a.c - correct Astronomy & Astrophysics reference.

2) eform.c – add WGS72 reference ellipsoid.

3) gc2gd.c, gd2gc.c – Correct name of routine for inverse transformation.

4) gd2gc.for/c use routine ZP to zero vector.

5) t_sofa_f.c – Update validation routine.

6) Correct typos in manual.lis and intro.lis.

Revisions – 27/01/2010
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1) Test program t_sofa_f.for has been updated to provide correct verification
   of eform.for, gc2gd.for and gd2gc.for.

2) The makefile has been updated.