This is the list of updates and changes that are actual errors.
Additions, such as including the units "radians", and/or typographical
alterations are not listed. They include changing capitalisation, e.g.
AU -> au and Of -> of, and consistent spelling i.e. catalogue -> catalog.

* +
Corrections to Code
* +

Fortran

STARPV, PVSTAR Code changes to make better use of machine precision

* +

ANSI C

Starpv, Pvstar

* +
Updated parameters
* +

Fortran

DAT
        PARAMETER (IYV = 2023)

* +

ANSI C

Dat
     enum { IYV = 2023};

* +
Changes to comments
* +

Fortran

A2TF, D2TF Notes: 3, last line

*   by testing for IHMSF(1)=24 and setting IHMSF(2-4) to zero.

ATOIQ Notes: 1, first line

* 1) "Observed" Az,ZD means ...

C2T06A Notes: 1, 2nd line, i.e. the end of the first sentence is

*   apportioned in any convenient way between the two arguments.

FK45Z Notes: 4, last sentence

 *   stars, whether polar or not. At epoch J2000.0, ...

FK54Z Notes 3, first line is

 3) Conversion from J2000.0 FK5 to B1950.0 FK4 only is provided for.

HFK5Z Notes: 6, first line

 6) See also iau_FK52H, iau_H2FK5, iau_FK5HZ.

LTPB Notes: 1, line 3

```
*      where P_ICRS is a vector in the International Celestial Reference
* + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
ANSI C

A2tf  Note 3, last line
**      by testing for ihmsf[0]=24 and setting ihmsf[1-3] to zero.

Atoiq  Notes: 1, first line
**  1) "Observed" Az,ZD means ...

C2t06a  Notes: 1, 2nd line, i.e. the end of the first sentence is
< **      apportioned in any convenient way between the two arguments.

Fk45z  Notes: 4, last sentence
**      motions for all stars, whether polar or not.  At epoch J2000.0,

Fk54z Notes 3, first line is
**  3) Conversion from J2000.0 FK5 to B1950.0 FK4 only is provided for.

Hfk5z  Notes: 6, first line
 **  6) See also iauFk52h, iauH2fk5, iauFk5hz.


t_sofa_c.c  The test program.  In the routine t_atccq the list of
                               called routines is
 **  Called:  iauApci13, iauAtccq, vvd

* + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
Additions to Cookbooks
* + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

Forty SOFA routines are not mentioned in the existing cookbooks; in
some cases simply because the routine was developed after the relevant
cookbook had been written. To address this deficiency, enhancements
have been drafted to two of the existing cookbooks (those on astrometry
and Earth attitude) and a new one (on miscellaneous topics) has been
written. This new cookbook is available for each distribution i.e.
sofa_misc_f.pdf for Fortran and sofa_misc_c.pdf for ANSI C. Topics
include ecliptic and galactic coordinates, Hipparcos/FK5 and FK4/FK5
transformations, geodesy and solar-system ephemerides.

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2023 May 31
* + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +
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