# <pre>

# @(#)leapseconds 8.11

# This file is in the public domain, so clarified as of

# 2009-05-17 by Arthur David Olson.

# Allowance for leapseconds added to each timezone file.

# The International Earth Rotation Service periodically uses leap seconds

# to keep UTC to within 0.9 s of UT1

# (which measures the true angular orientation of the earth in space); see

# Terry J Quinn, The BIPM and the accurate measure of time,

# Proc IEEE 79, 7 (July 1991), 894-905.

# There were no leap seconds before 1972, because the official mechanism

# accounting for the discrepancy between atomic time and the earth's rotation

# did not exist until the early 1970s.

# The correction (+ or -) is made at the given time, so lines

# will typically look like:

# Leap YEAR MON DAY 23:59:60 + R/S

# or

# Leap YEAR MON DAY 23:59:59 - R/S

# If the leapsecond is Rolling (R) the given time is local time

# If the leapsecond is Stationary (S) the given time is UTC

# Leap YEAR MONTH DAY HH:MM:SS CORR R/S

Leap 1972 Jun 30 23:59:60 + S

Leap 1972 Dec 31 23:59:60 + S

Leap 1973 Dec 31 23:59:60 + S

Leap 1974 Dec 31 23:59:60 + S

Leap 1975 Dec 31 23:59:60 + S

Leap 1976 Dec 31 23:59:60 + S

Leap 1977 Dec 31 23:59:60 + S

Leap 1978 Dec 31 23:59:60 + S

Leap 1979 Dec 31 23:59:60 + S

Leap 1981 Jun 30 23:59:60 + S

Leap 1982 Jun 30 23:59:60 + S

Leap 1983 Jun 30 23:59:60 + S

Leap 1985 Jun 30 23:59:60 + S

Leap 1987 Dec 31 23:59:60 + S

Leap 1989 Dec 31 23:59:60 + S

Leap 1990 Dec 31 23:59:60 + S

Leap 1992 Jun 30 23:59:60 + S

Leap 1993 Jun 30 23:59:60 + S

Leap 1994 Jun 30 23:59:60 + S

Leap 1995 Dec 31 23:59:60 + S

Leap 1997 Jun 30 23:59:60 + S

Leap 1998 Dec 31 23:59:60 + S

Leap 2005 Dec 31 23:59:60 + S

Leap 2008 Dec 31 23:59:60 + S

# INTERNATIONAL EARTH ROTATION AND REFERENCE SYSTEMS SERVICE (IERS)

#

# SERVICE INTERNATIONAL DE LA ROTATION TERRESTRE ET DES SYSTEMES DE REFERENCE

#

# SERVICE DE LA ROTATION TERRESTRE

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#

# Paris, 2 February 2011

#

# Bulletin C 41

#

# To authorities responsible

# for the measurement and

# distribution of time

#

# INFORMATION ON UTC - TAI

#

# NO positive leap second will be introduced at the end of June 2011.

# The difference between Coordinated Universal Time UTC and the

# International Atomic Time TAI is :

#

# from 2009 January 1, 0h UTC, until further notice : UTC-TAI = -34 s

#

# Leap seconds can be introduced in UTC at the end of the months of December

# or June, depending on the evolution of UT1-TAI. Bulletin C is mailed every

# six months, either to announce a time step in UTC, or to confirm that there

# will be no time step at the next possible date.

#

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