



AHELP for CIAO 3.4

prop-time

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Synopsis

Defines available calendars and timescales for Chandra Proposal Tools

Description

The default timescale types in DATES are:

Timescale	Timescale Type
TT	Terrestrial Time
UTC	Civil Time
TDB	Dynamical Time
TAI	Atomic Time
UT1	UT1 Time
GMST	Sidereal Time

with additional timescales defined as offsets to UTC:

Timescale	Timescale Name	Type	Zone Par	Zone
MST	Moscow Summer Time	Civil Time	14400	+0400
DMV	Moscow Decree Time	Civil Time	10800	+0300
BST	British Summer Time	Civil Time	3600	+0100
GMT	Greenwich Mean Time	Civil Time	0	+0000
EDT	Eastern Daylight Time	Civil Time	-14400	-0400
EST	Eastern Standard Time	Civil Time	-18000	-0500
CDT	Central Daylight Time	Civil Time	-18000	-0500
CST	Central Standard Time	Civil Time	-21600	-0600
MDT	Mountain Daylight Time	Civil Time	-21600	-0600
MST	Mountain Standard Time	Civil Time	-25200	-0700
PDT	Pacific Daylight Time	Civil Time	-25200	-0700
PST	Pacific Standard Time	Civil Time	-28800	-0800

The supported calendar types are:

Calendar	Calendar Name	Type
GREG	Gregorian date	Gregorian Calendar
JD	Julian Day	Julian Day Number
MJD	Modified Julian Day	Julian Day Number
DAYS	JD - 2450814.5	Julian Day Number
DATE	Date	Gregorian Calendar
PACK	Packed date	Gregorian Calendar
DOY	Day of year	Gregorian Calendar
OS	Julian Calendar	Julian Calendar

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ROMAN	Roman calendar	Roman Calendar
RF	French Rev. Calendar	French Revolutionary Cal
GSD	Greenwich Sidereal Date	Greenwich Sidereal Date
GST	Greenwich Sidereal Time	Greenwich Sidereal Date
TIME	TIME(JD 2450814.5)	Elapsed Seconds

- **JD/MJD/DAYS:** For the JD, MJD and days calendars, enter a numeric value. Only Julian days between -2×10^9 and 2×10^9 are supported.
- **GREG:** There are a variety of formats for the GREG calendar. The standard is the words AD or BC followed by the year, month name, day, time of day. For example: AD 1993 Jun 30 23:59:50.234. The BC is mandatory, AD may be left off. Day 0 is the last day of the preceding month. Month numbers may be used instead of names. Colons may be omitted, replaced by spaces, or the letters h, m, s. Trailing information may be omitted, in such case, the earliest date is assumed. Further forms of imprecise and uncertain dates are supported: example: 1993 Jun 30 23:59? or 1990s?. Day of Year format is supported also: 1997 Day 104 14:20:32.
- **DOY:** Last three digits of the integral part is the day of the year, earlier digits are assumed to be the year.
- **PACK:** Last four digits are MM and DD, earlier digits assumed to be the year, if less than 100, 1900 automatically added.
- **TIME:** Elapsed time calendar, gives seconds since the zero point defined by the zero command. The default is Chandra time: the time tag on events in the Chandra data files, measured in seconds since 1998 Jan 1 00:00:0.0.
- **GSD/GST:** GSD is essentially JD(GMST). Calendar GSD outputs the result as JD and fraction of day. GST outputs the result as an integer day number and hh:mm:ss.sss of sidereal time.

See Also

proposaltools

[colden](#), [dates](#), [obsvis](#), [pimms](#), [precess](#), [prop-coords](#), [prop-tools](#)

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URL:
<http://cxc.harvard.edu/ciao3.4/prop-time.html>
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