

Package ‘shide’

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Type Package

Title Date/Time Classes Based on Jalali Calendar

Version 0.3.0

Description Implements S3 classes for storing dates and date-times based on the Jalali calendar.

The main design goal of 'shide' is consistency with base R's 'Date' and 'POSIXct'.

It provide features such as: date-time parsing, formatting and arithmetic.

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URL <https://github.com/mmollayi/shide>

BugReports <https://github.com/mmollayi/shide/issues>

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as_jdate	<i>Cast an object to a jdate object</i>
----------	---

Description

A generic function that converts other date/time classes to jdate.

Usage

```
as_jdate(x, ...)
```

Arguments

`x` A vector of `jdatetime`, `POSIXct` or `Date`.
`...` These dots are for future extensions and must be empty.

Details

Unlike R's `as.Date.POSIXct()` method, `as_jdate` does not expose a time zone argument and uses time zone attribute of input `datetime` object for conversion.

Value

A vector of `jdate` objects with the same length as `x`.

Examples

```
as_jdate(as.Date("2023-12-12"))
as_jdate(jdatetime("1402-09-21 13:14:00", tzzone = "Asia/Tehran"))
as_jdate(as.POSIXct("2023-12-12 13:14:00", tz = "Asia/Tehran"))
```

as_jdatetime	<i>Cast an object to a jdatetime object</i>
--------------	---

Description

A generic function that converts other date/time classes to jdatetime.

Usage

```
as_jdatetime(x, tzzone, ...)
```

Arguments

x	a vector of jdate, POSIXct or Date.
tzzone	A time zone name.
...	These dots are for future extensions and must be empty.

Details

If tzzone is missing (default), time zone attribute of input object is used for conversion. If the input object does not have time zone attribute (e.g. jdate), and no value is supplied for tzzone, local time zone is assumed for conversion.

Value

A vector of jdatetime objects with the same length as x.

Examples

```
## The time will be set to midnight when converting from `jdate` or `Date`
as_jdatetime(jdate_now())
as_jdatetime(Sys.Date())
## We can change time zone of a `jdatetime` to a new time zone
as_jdatetime(jdatetime_now(tzzone = "Iran"), tzzone = "Asia/Tokyo")
```

is_jdate	<i>Check an object for its class</i>
----------	--------------------------------------

Description

- `is_jdate()` checks whether an object is of class `jdate`.
- `is_jdatetime()` checks whether an object is of class `jdatetime`.

Usage

```
is_jdate(x)
```

```
is_jdatetime(x)
```

Arguments

`x` An object to test.

Value

TRUE or FALSE.

Examples

```
is_jdate(jdate_now() + 1) # TRUE
is_jdatetime(jdatetime_now() + as.difftime(2, units = "hours")) # TRUE
```

jdate	<i>Jalali calendar dates</i>
-------	------------------------------

Description

`jdate` is an S3 class for representing the Jalali calendar dates. It can be constructed from character and numeric vectors.

Usage

```
jdate(x, ...)
```

```
## S3 method for class 'numeric'
jdate(x, ...)
```

```
## S3 method for class 'character'
jdate(x, format = NULL, ...)
```

Arguments

x	A vector of numeric or character objects.
...	Arguments passed on to further methods.
format	Format argument for character method.

Details

jdate is stored internally as a double vector and doesn't have any attributes. Its value represents the count of days since the Unix epoch (a negative value if it represents a date prior to the epoch). This implementation coincides with the implementation of Date class.

Value

A vector of jdate objects.

Examples

```
jdate("1402-09-20")
jdate("1402/09/20", format = "%Y/%m/%d")
## Will replace invalid date format with NA
jdate("1402/09/20", format = "%Y-%m-%d")
## Invalid dates will be replaced with NA
jdate("1402-12-30")
## Jalali date corresponding to "1970-01-01"
jdate(0)
```

jdatetime

Date-time based on the Jalali calendar

Description

jdatetime is an S3 class for representing date-times with the Jalali calendar dates. It can be constructed from character and numeric vectors.

Usage

```
jdatetime(x, tzzone = "", ...)
```

S3 method for class 'character'

```
jdatetime(x, tzzone = "", format = NULL, ..., ambiguous = NULL)
```

Arguments

x	A vector of numeric or character objects.
tzzone	A time zone name. Default value represents local time zone.
...	Arguments passed on to further methods.
format	Format argument for character method.
ambiguous	Resolve ambiguous times that occur during a repeated interval (when the clock is adjusted backwards during the transition from DST to standard time). Possible values are: <ul style="list-style-type: none"> • "earliest": Choose the earliest of the two moments. • "latest": Choose the latest of the two moments. • "NA": Produce NA. <p>If NULL, defaults to "earliest"; as this seems to be base R's behavior.</p>

Details

jdatetime is stored internally as a double vector and has a single attribute: the timezone (tzzone). Its value represents the count of seconds since the Unix epoch (a negative value if it represents an instant prior to the epoch). This implementation coincides with that of POSIXct class, except that POSIXct may not have tzzone attribute. But for jdatetime, tzzone is not optional.

Value

A vector of jdatetime objects.

Examples

```
## default time zone and format
jdatetime("1402-09-20 18:57:09")
jdatetime("1402/09/20 18:57:09", tzzone = "UTC", format = "%Y/%m/%d %H:%M:%S")
## Will replace invalid format with NA
jdatetime("1402/09/20 18:57:09", format = "%Y-%m-%d %H:%M:%S")
## nonexistent time will be replaced with NA
jdatetime("1401-01-02 00:30:00", tzzone = "Asia/Tehran")
## ambiguous time will be replaced with NA
jdatetime("1401-06-30 23:30:00", tzzone = "Asia/Tehran", ambiguous = "NA")
## ambiguous time will resolve by choosing the later time instant
jdatetime("1401-06-30 23:30:00", tzzone = "Asia/Tehran", ambiguous = "latest")
## Jalali date-time in Iran time zone, corresponding to Unix epoch
jdatetime(0, "Iran")
```

`jdate_make`*Construct Jalali date-time objects from individual components*

Description

- `jdate_make()` creates a `jdate` object from individual components.
- `jdatetime_make()` creates a `jdatetime` object from individual components.

Usage

```
jdate_make(year, month = 1L, day = 1L, ...)
```

```
jdatetime_make(  
  year,  
  month = 1L,  
  day = 1L,  
  hour = 0L,  
  minute = 0L,  
  second = 0L,  
  tzone = "",  
  ...,  
  ambiguous = NULL  
)
```

Arguments

<code>year</code>	Numeric year.
<code>month</code>	Numeric month.
<code>day</code>	Numeric day.
<code>...</code>	These dots are for future extensions and must be empty.
<code>hour</code>	Numeric hour.
<code>minute</code>	Numeric minute.
<code>second</code>	Numeric second.
<code>tzone</code>	A time zone name. Default value represents local time zone.
<code>ambiguous</code>	Resolve ambiguous times that occur during a repeated interval (when the clock is adjusted backwards during the transition from DST to standard time). Possible values are: <ul style="list-style-type: none">• "earliest": Choose the earliest of the two moments.• "latest": Choose the latest of the two moments.• "NA": Produce NA. If NULL, defaults to "earliest"; as this seems to be base R's behavior.

Details

Numeric components are recycled to their common size using [tidyverse recycling rules](#).

Value

- `jdate_make()` A vector of `jdate` object.
- `jdatetime_make()` A vector of `jdatetime` object.

Examples

```
## At least 'year' must be supplied
jdate_make(year = 1401)
## Components are recycled
jdatetime_make(year = 1399:1400, month = 12, day = c(30, 29), hour = 12, tzzone = "UTC")
## resolve ambiguous time by choosing the later time instant
jdatetime_make(1401, 6, 30, 23, 0, 0, tzzone = "Asia/Tehran", ambiguous = "latest")
```

<code>jdate_now</code>	<i>Current Jalali date and datetime</i>
------------------------	---

Description

System representation of the current time as `jdate` and `jdatetime`.

Usage

```
jdate_now(tzzone = "")
jdatetime_now(tzzone = "")
```

Arguments

`tzzone` Time zone to get the current time for.

Value

- `jdate_now()` A `jdate` object.
- `jdatetime_now()` A `jdatetime` object.

Examples

```
# Current Jalali date in the local time zone
jdate_now()

# Current Jalali date in a specified time zone
jdate_now("Asia/Tokyo")

# may be true or false
```

```
jdate_now("Asia/Tehran") == jdate_now("Asia/Tokyo")

# Current Jalali datetime in the local time zone
jdatetime_now()
```

seq.jdate

Generate regular sequences of Jalali dates

Description

The method for [seq](#) for objects of class `jdate`.

Usage

```
## S3 method for class 'jdate'
seq(from, to, by, length.out = NULL, along.with = NULL, ...)
```

Arguments

<code>from</code>	starting date; optional.
<code>to</code>	end date; optional.
<code>by</code>	increment of the sequence; optional. See ‘Details’.
<code>length.out</code>	integer, optional. Desired length of the sequence.
<code>along.with</code>	optional; take the length from the length of this argument.
<code>...</code>	arguments passed to or from other methods.

Details

`by` can be specified in several ways:

- A number, taken to be in days.
- A object of class [difftime](#).
- A character string, containing one of "day", "week", "month", "quarter" or "year". This can optionally be preceded by a (positive or negative) integer and a space, or followed by "s".

Value

A vector of `jdate` objects.

Comparison with seq.Date()

The source code of seq.jdate() is a modified version of the code used in base::seq.Date(). But a few behaviors of the latter are changed:

- In base R, invalid dates resolve by overflowing according to the number of days that the date is invalid by. But seq.jdate() resolves invalid dates by rolling forward to the first day of the next month.
- If usage of to and length.out results in a fractional sequence between from and to, base R keeps the fraction in the underlying data of the output Date object. But since jdate is built upon whole numbers, the fractional part is dropped in the output.

These differences are illustrated in the examples.

See Also

[base::seq.Date\(\)](#)

Examples

```
# by days
seq(jdate("1402-01-01"), jdate("1402-01-10"), 1)
# by 2 weeks
seq(jdate("1402-01-01"), jdate("1402-04-01"), "2 weeks")
# first days of years
seq(jdate("1390-01-01"), jdate("1399-01-01"), "years")
# by month
seq(jdate("1400-01-01"), by = "month", length.out = 12)
# quarters
seq(jdate("1400-01-01"), jdate("1403-01-01"), by = "quarter")

# fractional dates are allowed in `seq.Date()`, but not in `seq.jdate()`
unclass(seq(as.Date(0), as.Date(3), length.out = 3))
unclass(seq(jdate(0), jdate(2), length.out = 3))

# resolving strategy for invalid dates is different in 'seq.jdate()' compared to 'seq.Date()'
seq(as.Date("2021-01-31"), by = "months", length.out = 2)
seq(jdate("1402-06-31"), by = "6 months", length.out = 2)
```

```
seq.jdatetime
```

Generate regular sequences of Jalali date-times

Description

The method for seq for objects of class jdatetime.

Usage

```
## S3 method for class 'jdatetime'
seq(from, to, by, length.out = NULL, along.with = NULL, ...)
```

Arguments

from	starting date; optional.
to	end date; optional.
by	increment of the sequence; optional. See ‘Details’.
length.out	integer, optional. Desired length of the sequence.
along.with	take the length from the length of this argument.
...	arguments passed to or from other methods.

Details

by can be specified in several ways:

- A number, taken to be in seconds.
- A object of class [difftime](#).
- A character string, containing one of "sec", "min", "hour", "day", "DSTday", "week", "month", "quarter" or "year". This can optionally be preceded by a (positive or negative) integer and a space, or followed by "s".

Value

A vector of jdatetime objects.

See Also

[base::seq.POSIXt\(\)](#)

Examples

```
# first days of years
seq(jdatetime_make(1390, 1, 1), jdatetime_make(1399, 1, 1), "years")
# by month
seq(jdatetime_make(1400, 1, 1), by = "month", length.out = 12)
seq(jdatetime_make(1400, 1, 31), by = "month", length.out = 12)
# days vs DSTdays
seq(jdatetime_make(1400, 1, 1, 12, tzone = "Asia/Tehran"), by = "day", length.out = 2)
seq(jdatetime_make(1400, 1, 1, 12, tzone = "Asia/Tehran"), by = "DSTday", length.out = 2)
seq(jdatetime_make(1400, 1, 1, 12, tzone = "Asia/Tehran"), by = "1 week", length.out = 2)
seq(jdatetime_make(1400, 1, 1, 12, tzone = "Asia/Tehran"), by = "7 DSTdays", length.out = 2)
```

shide-arithmetic *Arithmetic operations for jdate and jdatetime*

Description

Arithmetic operations for jdate and jdatetime

Usage

```
## S3 method for class 'jdate'
vec_arith(op, x, y, ...)

## S3 method for class 'jdatetime'
vec_arith(op, x, y, ...)
```

Arguments

op	An arithmetic operator as a string.
x, y	A pair of vectors.
...	These dots are for future extensions and must be empty.

Details

Supported operations:

- Difference between two jdate objects results a difftime object with units = "days".
- Difference between two jdatetime objects results a difftime object with units = "seconds".
- A numeric vector can be added to or subtracted from a jdate or jdatetime.
- A difftime vector can be added to or subtracted from a jdate only if it has resolution bigger than "days".
- A difftime vector can be added to or subtracted from a jdatetime.
- A jdate object can be subtracted from a jdatetime and vice versa.

Value

The binary operator result of x and y. See details for more information on operator behaviors.

Examples

```
jdatetime_now() - jdate_now()
jdate_now() - as.difftime(1, units ="weeks" ) - as.difftime(1, units = "days")
```

shide-coercion

*Coercion***Description**

Double dispatch methods to support `vctrs::vec_ptype2()`.

Usage

```
## S3 method for class 'jdate'
vec_ptype2(x, y, ..., x_arg = "", y_arg = "")

## S3 method for class 'jdatetime'
vec_ptype2(x, y, ..., x_arg = "", y_arg = "")
```

Arguments

<code>x, y</code>	Vector types.
<code>...</code>	These dots are for future extensions and must be empty.
<code>x_arg, y_arg</code>	Argument names for <code>x</code> and <code>y</code> . These are used in error messages to inform the user about the locations of incompatible types (see <code>stop_incompatible_type()</code>).

Details

Coercion rules for `jdate` and `jdatetime`:

- Combining a `jdate` and `jdatetime` yields a `jdatetime`.
- When combining two `jdatetime` objects, the timezone is taken from the first non-local timezone.

Value

An object prototype if `x` and `y` can be safely coerced to the same prototype; otherwise it returns an error. See details for more information on coercion hierarchy for `jdate` and `jdatetime`.

Examples

```
# jdate and jdatetime are compatible
c(jdate(), jdatetime(), jdatetime(tzone = "UTC"))
# jdate and Date are incompatible
try(c(jdate(), as.Date(NULL)))
```

Description

Math and Summary group of functions for jdate and jdatetime objects. Only methods for `is.finite()` and `is.infinite()` are provided and other functions from the groups, such as `mean()`, `median()` and `summary()` are not implemented.

Usage

```
## S3 method for class 'jdate'  
vec_math(.fn, .x, ...)  
  
## S3 method for class 'jdatetime'  
vec_math(.fn, .x, ...)
```

Arguments

<code>.fn</code>	A mathematical function from the base package, as a string.
<code>.x</code>	A vector of jdate or jdatetime objects.
<code>...</code>	Additional arguments passed to <code>.fn</code> .

Details

vctrs implementation of Date and POSIXct does not include methods for `is.finite()` and `is.infinite()`. But these method are implemented in shide so that jdate and jdatetime vectors could be used as ggplot scales.

Value

For `is.finite()` and `is.infinite()`, a logical vector of the same length as `x`. Using all the other math and summary group generics will signal an error.

Examples

```
# Unlike a `Date` vector, `mean()` is not defined for a `jdate` vector  
try(mean(c(jdate_now(), jdate_now() + 2)))
```

`sh_day`*Get/set the days components of Jalali date-time objects*

Description

- `sh_day()` and `sh_day<-()` retrieves and replaces the day of the month respectively.
- `mday()` and `mday<-()` are aliases for `day()` and `day<-()`.
- `sh_wday()` retrieves the day of the week.
- `sh_qday()` retrieves the day of the quarter.
- `sh_yday()` retrieves the day of the year.

Usage`sh_day(x)``sh_mday(x)``sh_wday(x)``sh_qday(x)``sh_yday(x)`

```
## S3 method for class 'jdate'  
sh_day(x)
```

```
## S3 method for class 'jdatetime'  
sh_day(x)
```

```
## S3 method for class 'jdate'  
sh_wday(x)
```

```
## S3 method for class 'jdatetime'  
sh_wday(x)
```

```
## S3 method for class 'jdate'  
sh_qday(x)
```

```
## S3 method for class 'jdatetime'  
sh_qday(x)
```

```
## S3 method for class 'jdate'  
sh_yday(x)
```

```
## S3 method for class 'jdatetime'
```

```
sh_yday(x)

sh_day(x) <- value

sh_mday(x) <- value

## S3 replacement method for class 'jdate'
sh_day(x) <- value

## S3 replacement method for class 'jdatetime'
sh_day(x) <- value
```

Arguments

x	A vector of jdate or jdatetime objects.
value	A numeric vector.

Details

For assignment, x and value are recycled to their common size using [tidyverse recycling rules](#).

Value

The days component of x as an integer.

Examples

```
x <- jdate("1402-12-14")
sh_day(x)
sh_mday(x)
sh_qday(x)
sh_wday(x)
sh_yday(x)
sh_mday(x) <- 12:13
```

sh_hour

Get/set the time components of jdatetime objects

Description

Get/set the time components of jdatetime objects

Usage

```
sh_hour(x)

sh_minute(x)

sh_second(x)

## S3 method for class 'jdatetime'
sh_hour(x)

## S3 method for class 'jdatetime'
sh_minute(x)

## S3 method for class 'jdatetime'
sh_second(x)

sh_hour(x) <- value

sh_minute(x) <- value

sh_second(x) <- value

## S3 replacement method for class 'jdatetime'
sh_hour(x) <- value

## S3 replacement method for class 'jdatetime'
sh_minute(x) <- value

## S3 replacement method for class 'jdatetime'
sh_second(x) <- value
```

Arguments

x	A vector of jdatetime objects.
value	A numeric vector.

Details

For assignment, x and value are recycled to their common size using [tidyverse recycling rules](#).

Value

An integer vector representing the hour, minute or second component of x, depending on the function being called.

Examples

```
x <- jdatetime("1402-12-14 19:13:31")
sh_second(x)
```

```
sh_hour(x) <- 17:18
```

sh_month

Get/set the month component of Jalali date-time objects

Description

Get/set the month component of Jalali date-time objects

Usage

```
sh_month(x)

## S3 method for class 'jdate'
sh_month(x)

## S3 method for class 'jdatetime'
sh_month(x)

sh_month(x) <- value

## S3 replacement method for class 'jdate'
sh_month(x) <- value

## S3 replacement method for class 'jdatetime'
sh_month(x) <- value
```

Arguments

x A vector of jdate or jdatetime objects.
value A numeric vector.

Details

For assignment, x and value are recycled to their common size using [tidyverse recycling rules](#).

Value

The month component of x as an integer.

Examples

```
x <- jdate("1402-12-14")
sh_month(x)
sh_month(x) <- 10:11
```

`sh_quarter`*Get the quarter of Jalali date-time objects*

Description

Get the quarter of Jalali date-time objects

Usage

```
sh_quarter(x)
```

Arguments

`x` A vector of `jdate` or `jdatetime` objects.

Value

An integer vector of 1 to 4.

Examples

```
x <- jdate("1402-12-14")
sh_quarter(x)
```

`sh_round`*Round Jalali date-times to a specific unit of time*

Description

- `sh_floor()` takes a `jdate` or `jdatetime` object and rounds it down to the previous unit of time.
- `sh_ceiling()` takes a `jdate` or `jdatetime` object and rounds it up to the next unit of time.
- `sh_round()` takes a `jdate` or `jdatetime` object and rounds it up or down, depending on what is closer. For dates or date-times which are exactly halfway between two consecutive units, the convention is to round up.

Usage

```
sh_round(x, unit = NULL, ...)
```

```
sh_floor(x, unit = NULL, ...)
```

```
sh_ceiling(x, unit = NULL, ...)
```

Arguments

x	A vector of jdate or jdatetime objects.
unit	A scalar character, containing a date or time unit or a multiple of a unit. Valid date units are "day", "week", "month", "quarter" and "year". Valid time units are "second", "minute" and "hour". These can optionally be followed by "s". For jdate inputs, only date units may be supplied and for jdatetime inputs, both date and time units work. If multiple of a unit is used, unit coefficient must be a whole number greater than or equal to 1. If NULL, defaults to "day" for jdate inputs and "second" for jdatetime inputs.
...	These dots are for future extensions and must be empty.

Value

A vector of jdate or jdatetime objects with the same length as x.

See Also

[lubridate::round_date\(\)](#)

Examples

```
x <- jdate("1402-12-15")
sh_floor(x, "year")
sh_floor(x, "2 months")
sh_ceil(x, "year")
sh_round(x, "year")
sh_round(x, "week") == sh_floor(x, "week")
sh_round(x + 1, "week") == sh_ceil(x, "week")

x <- jdatetime("1402-12-15 12:30:00", tzzone = "Asia/Tehran")
sh_floor(x, "20 minutes")
sh_ceil(x, "20 minutes")
sh_round(x, "1 hour") == sh_ceil(x, "1 hour")
```

sh_tzone

Get the time zone component of jdatetime objects

Description

Get the time zone component of jdatetime objects

Usage

```
sh_tzone(x)

## S3 method for class 'jdatetime'
sh_tzone(x)
```

Arguments

x A vector of jdatetime objects.

Details

This function is only valid for jdatetime objects. jdate objects do not have time zone attribute.

Value

A character vector of length 1. An empty string represents the current local time zone.

Examples

```
x <- jdatetime("1402-12-14 19:13:31", tzzone = "Iran")
sh_tzone(x)
```

sh_year	<i>Get/set the year component of Jalali date-time objects</i>
---------	---

Description

Get/set the year component of Jalali date-time objects

Usage

```
sh_year(x)

## S3 method for class 'jdate'
sh_year(x)

## S3 method for class 'jdatetime'
sh_year(x)

sh_year(x) <- value

## S3 replacement method for class 'jdate'
sh_year(x) <- value

## S3 replacement method for class 'jdatetime'
sh_year(x) <- value
```

Arguments

x A vector of jdate or jdatetime objects.
value A numeric vector.

Details

For assignment, x and value are recycled to their common size using [tidyverse recycling rules](#).

Value

The year component of x as an integer.

Examples

```
x <- jdate("1402-12-14")
sh_year(x)
sh_year(x) <- 1400:1401
```

sh_year_is_leap	<i>Determine if a Jalali year is a leap year</i>
-----------------	--

Description

Check if an instant is in a leap year according to the Jalali calendar.

Usage

```
sh_year_is_leap(x)
```

Arguments

x A jdate or jdatetime object or a numeric vector representing Jalali years.

Value

TRUE if in a leap year or FALSE otherwise.

Examples

```
sh_year_is_leap(jdatetime("1399-01-01 00:00:00"))
x <- seq(jdate("1400-01-01"), by = "years", length.out = 10)
names(x) <- sh_year(x)
sh_year_is_leap(x)
```

vec_cast.jdate *Cast an object to a jdate object*

Description

Cast an object to a jdate object

Usage

```
## S3 method for class 'jdate'  
vec_cast(x, to, ...)
```

Arguments

x	Vectors to cast.
to	Type to cast to. If NULL, x will be returned as is.
...	For vec_cast_common(), vectors to cast. For vec_cast(), vec_cast_default(), and vec_restore(), these dots are only for future extensions and should be empty.

Value

A vector of jdate objects.

See Also

[as_jdate](#) is a convenience function that makes use of the casts that are defined for vec_cast.jdate() methods.

vec_cast.jdatetime *Cast an object to a jdatetime object*

Description

Cast an object to a jdatetime object

Usage

```
## S3 method for class 'jdatetime'  
vec_cast(x, to, ...)
```

Arguments

<code>x</code>	Vectors to cast.
<code>to</code>	Type to cast to. If NULL, <code>x</code> will be returned as is.
<code>...</code>	For <code>vec_cast_common()</code> , vectors to cast. For <code>vec_cast()</code> , <code>vec_cast_default()</code> , and <code>vec_restore()</code> , these dots are only for future extensions and should be empty.

Value

A vector of `jdatetime` objects.

See Also

[as_jdatetime](#) is a convenience function that makes use of the casts that are defined for `vec_cast.jdatetime()` methods.

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