

Why does my TIME_ZONE_INFORMATION have the wrong DST cutover date?

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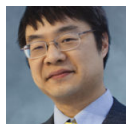
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Public Service Announcement: Daylight Saving Time begins in most parts of the United States this weekend. Other parts of the world may change on a different day from the United States. A customer reported that they were getting incorrect values from the `GetTimeZoneInformationForYear` function.

I have a program that calls `GetTimeZoneInformationForYear`, and it looks like it's returning incorrect DST transition dates. For example, `GetTimeZoneInformationForYear(2010, NULL, &tzi)` is returning March 2nd as the `tzi.DaylightDate` value, instead of the Expected March 14th date. The current time zone is Pacific Time.

The value returned by `GetTimeZoneInformationForYear` (and `GetTimeZoneInformation`) is correct; you're just reading it wrong. As called out in the documentation for the `TIME_ZONE_INFORMATION` structure, the `wDay` field in the `StandardDate` and `DaylightDate` changes meaning depending on whether the `wYear` is zero or nonzero. If the `wYear` is nonzero, then the `wDay` has its usual meaning. But if the `wYear` is zero (and it is for most time zones), then the `wDay` encodes the *week number* of the cutover rather than the day number.

In other words, that 2 does not mean "March 2nd". It means "the second week in March".



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