Subject: Re: Posix Time Functions
Posted by Ben Tupper on Thu, 11 Nov 1999 08:00:00 GMT
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In article <382A51B0.44D1CB18@mindspring.com>, Eric says...
>
> I posted this a while a go but didn't hear anything so I thought I'd
> take one more shot. Does anyone know of / have any POSIX time functions
> for IDL? That is a function which takes seconds since Jan, 1 1970 and
> returns a nice date structure (year, month, day,etc..). Such beasties
> are plentiful in Java, C etc so I figure one should be in IDL also.
>
>

Try something like this... I just happened to need something like this recently when working with instrument data. Each measurement was stamped with Julian seconds elapsed since October 15, 1582.

```
FUNCTION POSIX_TIME, Seconds


 ;convert seconds since 1-1-1970 to a comparable Julian Days elapsed
ElapsedJulianDays = Seconds/(60.*60.*24.)

 ; get the Julian day number for the benchtime
BenchTimeJulianDay = JulDay(1,1,1970)

 ; add the number of days elapsed to the BenchTime less one
TargetDayJulian = ElapsedJulianDays + BenchTimeJulianDay - 1.

 ; convert back to familiar calendar date
CalDat, TargetDayJulian, Month, Day, Year

Return, {Month:Month, Day:Day, Year:Year}

End
```

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