

# Popup Lunar-Calendar Demo



version 1.10 - from Crazy Rides Software - by Gerry Kichok - CompuServe ID 74072,3600



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# funDateAdd and funDateDiff w/o MSAFINX.DLL



version 1.10 - from Crazy Rides Software - by Gerry Kichok - Compuserve ID 74072,3600

**funDateAdd and funDateDiff routines demo** from the DATEFUNC.BAS module.

This demo was created for a bit of fun, but more for my debugging purposes.

If you do not have **MSAFINX.DLL** in your windows/system directory then you will only be able to test my functions funDateAdd and funDateDiff and not be able to complete the speed tests.

## Compatibility

It was important to be able to reproduce exactly the same results using the same parameters that DateAdd and DateDiff would use. I was able to achieve this and more, while in the testing process I was able to uncover some bugs in both **DateAdd** and **DateDiff** which my functions handle correctly.

## Speed

This was not as important as compatibility but I set a goal to make my routines run at least at 10% of the speed of the MSAFINX.DLL on my computer (486SX25 VLB w/8megs using Windows for Workgroups 3.11 and 32 bit file access). I surpassed this averaging **from 40% to 80%**, but results may vary on your computer.

## Size

This is **one less file** you will need to include and distribute with you applications, while adding minimal size to you application.

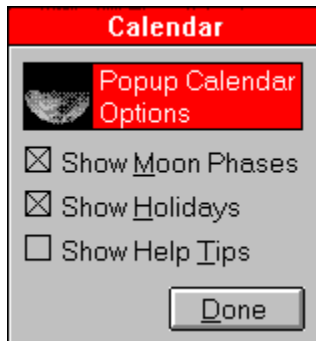
**MSAFINX.DLL** is the financial library included with the Visual Basic 3 for Windows package from MicroSoft.

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# Popup Calendar Options



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This is a **NEW** feature added to the Popup Lunar-Calendar as of version 1.10. The options are saved in your users WIN.INI file under 'YourAppName'. If you wish to disable or permanently set an option simply change the value of that options **Checkbox** and set the **Checkbox** visible property to false.

## Modes of Operation

**Standard Mode** - basic operation. Today is coloured **BLUE**.

### Mouse Click

left button on any date  
left button on the MONTH  
right button on the MONTH  
left button on the YEAR  
right button on the YEAR

### Output

the day selected  
the first day of the month  
the first day of the week containing the first day of the month  
the first day of the year  
the first day of the week containing the first day of the year

**Show Moon Phases** - enables moon phase display inside the Popup Lunar-Calendar using graphical images to represent moon phases.

Works with All Modes by adding Moon Phase images behind the transparent date buttons to symbolize the phases of the Moon. All Moon Phase dates are accurate to within about 2 minutes. Moon Phase dates are based on Universal Time.

**Show Holidays** - enables holiday display inside the Popup Lunar-Calendar (**Red Dates**) and using a right mouse click will show which holiday event in the Popup. If Today is a Holiday it is coloured **PURPLE**.

In addition to the *standard mode* of operation.

### Mouse Click

right button on a holiday

### Menu Popup

the Holiday Event

**Popup Tips** - enables Tips to popup after a period of 900 ms of mouse inactivity over a control

# Astronomy Calculations



version 1.10 - from Crazy Rides Software - by Gerry Kichok - Compuserve ID 74072,3600

**Astronomy routines demo** from the ASTRONOM.BAS module.

Well hopefully this demo is pretty straight forward, simply **enter a date** into any of the text boxes or **double click** on the text box to bring up the popup calendar and select a date, then click on the **convert button**. You may enter the date in any standard format (i.e. 11/7/94 11:23:34PM).

The Julian Date text boxes simply enter as 2447892.786201 or 32872.786201 for the days since 1900.

The Time Conversion text boxes simply enter hh:mm:ss as 23:21:09 or 11:21:09PM and hours as 23.3525

The **Astronomy routines** are adapted from Astronomy With Your Personal Computer and Astronomical Formulæ for Calculators

**Moon Phases** calculations in Peter Duffett-Smith book states that his **moon phase** routine adopts the algorithm given by Meeus in his excellent book Astronomical Formulæ for Calculators (second edition) to calculate the instances of **New and Full moon** to within an accuracy of about 2 minutes. I then adapted Peter Duffett-Smith's routines to include instances for **First and Last Quarter phases** using the formula's in Meeus's book.

Many moon phase generator programs I have tried are based on Meeus's Book, but I have found that Peter Duffett-Smith's routines were the most accurate interpretation and nicest to convert to Visual Basic. I tried not to change the subroutines, but had to make some modifications for readability and variable declaration, while the handler routines have been rewritten for my functions.

**Julian Date** conversion's are based on whole days and output starts at 0 equal to Jan 1.5, 4713 B.C. . **Julian Days since 1900 Jan 0.5** are calculated just as described, days since Jan 0.5, 1900 A.D. (and is equal to Julian Date - 2415020.0)

**Time Conversion** works two ways, if the input is less than 24 hours the time is output as time of day, while if the input is greater than 24 hours is output as +/- hours.

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## Source Code



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### Source Code Files

<u>CALENDAR.FRM</u>	Calendar Form
<u>CALENDAR.BAS</u>	Calendar generator routines
<u>DATEFUNC.BAS</u>	funDateAdd and funDateDiff
<u>ASTRONOM.BAS</u>	Astronomy routines

## CALENDAR.FRM & CALENDAR.FRX

### Calendar Form for the Popup Lunar-Calendar by Crazy Rides Software

This form is called by `CALENDAR.BAS`  
The graphics are held in `CALENDAR.FRX`

All of the code in this form is used to call subroutines and functions inside of `CALENDAR.BAS`.

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<u>ASTRONOM.BAS</u>	Astronomy routines

## CALENDAR.BAS

### Calendar generator routines for the Popup Lunar-Calendar

This module is called by one line from your program and loads the CALENDAR.FRM

```
Sub subCalendarLoad (ByVal InputDate As String, SetForm As Form, SetCtl As Control,
    ByVal DateOutFormat As String, ByVal LowerDate As String, ByVal UpperDate As String,
    ByVal YourAppName As String)
```

```
    InputDate      = the start date displayed on your form
    SetForm        = the form that called the Calendar Popup
    SetCtl         = the output container for Calendar Popup
    DateOutFormat  = Output Date Format (see 'Format' on pages 223-226 in the VB3 Language Reference)
    LowerDate      = the calendar's lower limit in a standard date format or ""
for default
    UpperDate      = the calendar's upper limit in a standard date format or ""
for default
    YourAppName    = the name of your application for the "Popup Calendar Options" inside the WIN.INI file
```

Requires DATEFUNC.BAS and ASTRONOM.BAS files

After a date is selected this line puts the selected date into the container you specified when you loaded the Calendar.

**Note :** the ctlCONTAINER can be any control that has a text or caption property. See [Examples](#) for more help.

**Moon Phase Routines** are very quick at finding the Moon Phases for the entire month, and displays them to within an accuracy of 2 minutes in Universal Time

**Holiday Display** is fast and accurate, and is very easy to modify and/or add events.

There are two parts to the generator:

1) The date and day of week holidays in the Function funHolidays places the dates and events into the

arrays HolidayEvent() and HolidayDate().

2) Holidays that are calculated based on easter. The Function funEASTER is based on the formula from the book Astronomical Formulae for Calculators and related easter events are added in Function funHolidays.

Holidays should be easy enough for you, the programmer to add or delete, but it has been suggested that the user should also be able to modify, add, and delete events.

The Call subHolidayPopup(Index as Integer) automatically checks the mouse selected date with the array of dates created by subGetHolidays.

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# Source Code



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## Source Code Files

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<u>ASTRONOM.BAS</u>	Astronomy routines

## DATEFUNC.BAS

### funDateAdd and funDateDiff

These are **drop-in** replacements for MSAFINX.DLL's DateAdd and DateDiff functions and require no extra functions, subroutines, DLL's, or VBX's.

```
Function funDateAdd (ByVal Interval As String, ByVal Increment As Long, ByVal  
StartDate As String) As String
```

**Notes** : funDateAdd Works for dates 1/1/100 AD to 12/31/9999 AD and increments from -2,147,483,648 to +2,147,483,647 . **BUG** : The **Error** in MSAFINX.DLL's DateAdd for **dates less then 12/30/1899 AD** is corrected. (i.e. DateAdd("n",1,"1/1/100") produces '**1/2/100 11:59:00 PM**' instead of '**1/1/100 12:01:00 AM**')

```
Function funDateDiff (ByVal Interval As String, ByVal StartDate As String,  
ByVal EndDate As String) As Double
```

**Notes** : funDateDiff Works for dates 1/1/100 AD to 12/31/9999 AD and produces double precision 'values that range from -1.797693134862315D308 to +1.797693134862315D308 instead of the long integers (-2,147,483,648 to +2,147,483,647) produced by DateDiff in MSAFINX.DLL . **BUG** :The **Error** in MSAFINX.DLL's DateDiff for **dates less then 12/30/1899 AD** and increments of seconds, minutes, or hours is corrected. (i.e. DateDiff("s","12/29/1899 00:00:00","12/29/1899 00:00:30") produces '**-30**' instead of '**30**')

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# Source Code



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## Source Code Files

<u>CALENDAR.FRM</u>	Calendar Form
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<u>ASTRONOM.BAS</u>	Astronomy routines

## ASTRONOM.BAS

The **Astronomy routines** are adapted from Astronomy With Your Personal Computer and Astronomical Formulæ for Calculators.

```
Function funCALDAY (ByVal fJulianDate As Double) As String
    Input  : julian date as days.part
    Output : calendar date as 'mm/dd/yyyy hh:nn:ss'
Function funCALDAY_SINCE1900 (ByVal fDateJulian As Double) As String
    Input  : julian date as days.part
    Output : calendar date as 'mm/dd/yyyy hh:nn:ss'
Function funHHMMSS (ByVal fHOURS As Double) As String
    Input  : time as hours.part
    Output : hours as '+/- hh:nn:ss'
Function funHOURS (ByVal strHOURS As String) As Double
    Input  : hours as '+/- hh:nn:ss'
    Output : time as hours.part
Function funJULDAY (ByVal strDATE As String) As Double
    Input  : calendar date as 'mm/dd/yyyy hh:nn:ss'
    Output : julian date as days.part
Function funJULDAY_SINCE1900 (ByVal strDATE As String) As Double
    Input  : calendar date as 'mm/dd/yyyy hh:nn:ss'
    Output : julian date as days.part
Function funNEXTMOONPHASES (PhaseDate As String, ByVal CalDate As String,
ByVal Phase As String) As Integer
    CalDate : input calendar date as 'mm/dd/yyyy hh:nn:ss'
    Phase   : input the phase to calculate as "New Moon", "1st Quarter",
"Full Moon", or "Last Quarter"
    Output  : flag as True/False on success
    PhaseDate : output next phase date as 'mm/dd/yyyy hh:nn:ss'
Function funMOONPHASES (NewMoon As String, FirstQtr As String, FullMoon As
String, LastQtr As String, ByVal CalDate As String) As Integer
    CalDate : input calendar date as 'mm/dd/yyyy hh:nn:ss'
    Output  : flag as True/False on success
    NewMoon : output closest new moon date as 'mm/dd/yyyy hh:nn:ss'
    FirstQtr : output the following first quarter date as 'mm/dd/yyyy
hh:nn:ss'
```

FullMoon : output the following full moon date as 'mm/dd/yyyy  
hh:nn:ss'  
LastQtr : output the following last quarter date as 'mm/dd/yyyy  
hh:nn:ss'

**Notes :** Moon calculations have an accuracy of about **2 minutes**. **Also**, there are many other functions and subroutines inside this module **BUT** only the ones specified above are the defined and usable functions while the others are internal to functions and may change or evolve over time due to corrections or optimization of the code.

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# Registration Form



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**Please print** this page then enter the following information for registration:

Name : \_\_\_\_\_

Company : \_\_\_\_\_

Street Address : \_\_\_\_\_

City/State or Province : \_\_\_\_\_

Country/ZIP or Postal Code : \_\_\_\_\_

Phone : \_\_\_\_\_

I downloaded this program from: \_\_\_\_\_ (bulletin board/  
on-line service) which is in: \_\_\_\_\_ (city/state)  
at: \_\_ (\_\_\_\_) \_\_\_\_\_ (phone number)

## Registration choice:

Compuserve Email \_\_\_\_\_ User ID \_\_\_\_\_ - 11.95\$US for Source Code

5¼ " \_\_\_\_\_ or 3½ " \_\_\_\_\_ diskettes.- 11.95\$US for Source Code + 3\$US  
S&H

**TOTAL** Registration FEE enclosed: \$ \_\_\_\_\_

**Please** make check or money order payable to Gerry Kichok. Send cash at your own risk. Sorry, Crazy Rides Software is not big enough, yet, to take credit card orders.

**Comments:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Mail to :

Gerry Kichok  
28 Eastbourne Avenue, #2  
Hamilton, Ontario.  
CANADA L8M 2M7

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# Popup Lunar-Calendar



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Popup Calendar with Holidays, and Moon Phases Enabled. The Popup Lunar-Calendar is called with one line of code and output's to any control you specify. (the control must be one that can accept text in some way either as a **Caption** or **Text**, **SetFocus** is **NOT** a problem.) The Popup Lunar-Calendar will appear **centered** under the current mouse position.

## Demo

Show Moon Phases - enables moon phase display inside the Popup Lunar-Calendar using graphical images to represent moon phases.

Show Holidays - enables holiday display inside the Popup Lunar-Calendar and using a right mouse click will show which holiday event in the Popup.

Popup Tips - enables Tips to popup after a period of 900 ms of mouse inactivity over a control

**Output Format** - uses the **Format** function as a template for the calendars output.

This configuration menu is an example for this demo on how it can be implemented.

Please see CALENDAR.BAS for a full description of the subroutine call.

Code Example :

```
Sub subCalPopUp (ByVal InputDate As String, Ctl As Control)
    'Demo code for subCalendarLoad(OneLine) Examples
    frmLUNARCAL.lblONELINE(1).Caption = InputDate
    frmLUNARCAL.lblONELINE(2).Caption = "frmLUNARCAL"
    frmLUNARCAL.lblONELINE(3).Caption = Ctl.Tag
    frmLUNARCAL.lblONELINE(4).Caption = "Popup Lunar-Calendar Demo"
    DoEvents

    Call subCalendarLoad(InputDate, frmLUNARCAL, Ctl,
    frmLUNARCAL.cboDateOut.Text, frmLUNARCAL.txtONELINE(0).Text,
    frmLUNARCAL.txtONELINE(1).Text, "Popup Lunar-Calendar Demo")
End Sub
```

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# Features



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This generic **Popup Lunar-Calendar** has evolved from an unique input device for some inhouse products into a completely self contained module. After checking some of the other uploads in the Compuserve MSBASIC library I decided to share my work as well.

## Features Include :

**ALL Visual Basic** Code, **NO** extra DLL's or VBX's are required. (Except VBRUN300.DLL.)

**Compatible** with Visual Basic **Standard Edition** without modification.

**One line subroutine call** brings up the Popup Calendar and sets the output placement.

**Drop-in** replacement functions **funDateAdd** and **funDateDiff** for DateAdd and DateDiff which require MSAFINX.DLL.

**Astronomy Functions** : Convert **Julain Date** <-> **Calendar Date**, Convert **Hours** <-> **HH:MM:SS**, and Calculate **Moon Phases**

**Moon Phase** generation displayed as **IMAGES** in the Popup Calendar background.

**Holiday** generation displayed in **RED** on the Popup Calendar.

**Popup Tips** provide **hints** for new users.

**FAST** display and updates. **Optimized** and **Precise** calculations.

**Support** Online through Compuserve or Regular Mail.

## NEW

**Faster** display, **3D** Look, **Today** Button, **Options** Windows, **Date Entry Ranges**. see Changes And Updates.

**Registration** is now available through the SWREG Forum.

I would like to hear from you about any improvements or bugs you feel need looking after. The future of this product has two possible directions, 1) keep it a plain VB source code module or 2) create a VBX using the source code.

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# Disclaimer



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If a problem is found with the product as provided please outline your situation clearly and what led up to the problem, and send it to me, Gerry Kichok via Compuserve Email or regular mail and I will attempt to correct it. I would like to keep my applications as error free as possible.

Except as provided within this file, Crazy Rides Software disclaims all warranties, either express or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the product or the accuracy of the data or the calculations. Should the product prove defective, the purchaser assumes the risk of paying the entire cost of all necessary servicing, repair, or correction and any incidental or consequential damages. In no event will Crazy Rides Software be liable for any damages whatsoever (Including without limitation damages for loss of business profits, business interruption, loss of business information and the like) arising out of the use or the inability to use this product even if Crazy Rides Software has been advised of the possibility of such damages.

**Use of this product for any period of time constitutes your acceptance of this agreement and subjects you to its contents.**

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# Examples



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This examples are provide to show the flexibility and ease of use provided by the Popup Lunar-Calendar.

The code below calls the wrapper Subroutine subCalPopup in the LUNARCAL.BAS Module to take advantage of the various options available from the Popup Lunar-Calendar, but I also included an examle of the single line code call subCalendarLoad that brings up the Popup Lunar-Calendar.

## TextBox

```
Sub txtTRYME_DblClick (Index As Integer)
    Call subCalPopup(txtTRYME(Index).Text, frmLUNARCAL.txtTRYME(Index))
End Sub
```

or

```
Sub txtTRYME_DblClick (Index As Integer)
    Call subCalendarLoad(txtTRYME(Index).Text, frmLUNARCAL,
    frmLUNARCAL.txtTRYME(Index), "m/d/yyyy", "1/1/1900", "12/31/2099", "Popup Lunar-
    Calendar Demo")
End Sub
```

## Label

```
Sub lblTRYME_DblClick (Index As Integer)
    If Index = 0 Then Call subCalPopup(NOW, frmLUNARCAL.lblTRYME(Index))
End Sub
```

or

```
Sub lblTRYME_DblClick (Index As Integer)
    If Index = 0 Then Call subCalendarLoad(NOW, frmLUNARCAL,
    frmLUNARCAL.lblTRYME(Index), "m/d/yyyy", "1/1/1994", "12/31/1994", "Popup Lunar-
    Calendar Demo")
End Sub
```

## CommandButton

```
Sub cmdTRYME_Click (Index As Integer)
    Select Case Index
        Case 0
            Call subCalPopup(cmdTRYME(Index).Caption,
            frmLUNARCAL.cmdTRYME(Index))
        Case 1
            ...
    End Select
End Sub
```

or



```

Sub cmdTRYME_Click (Index As Integer)
    Select Case Index
        Case 0
            Call subCalendarLoad(cmdTRYME(Index).Caption, frmLUNARCAL,
frmLUNARCAL.cmdTRYME(Index), "m/d/yyyy", "", "", "Popup Lunar-Calendar Demo")
        Case 1
            ...
    End Select
End Sub

```

## Combinations

```

Sub cmdTRYME_Click (Index As Integer)
    Select Case Index
        Case 0
            ...
        Case 1
            Call subCalPopUp(lblTRYME(Index).Caption,
frmLUNARCAL.lblTRYME(Index))
    End Select
End Sub

```

or

```

Sub cmdTRYME_Click (Index As Integer)
    Select Case Index
        Case 0
            ...
        Case 1
            Call subCalendarLoad(lblTRYME(Index).Caption, frmLUNARCAL,
frmLUNARCAL.lblTRYME(Index), "m/d/yyyy", "1/1/1900", "", "Popup Lunar-Calendar
Demo")
    End Select
End Sub

```

**Other** Controls should work properly also provided that there is a text or caption property for the date output although you may have to modify the subCalDateClick routine in the CALANDAR.BAS Module. Or you may drop me a note including an example of what you wish to accomplish if you are having trouble.

# Bibliography



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Astronomy With Your Personal Computer by Peter Duffett-Smith  
*Second Edition* Published © 1990 **Cambridge University Press**  
ISBN 0-521-38995-X

Astronomical Formulae for Calculators by Jean Meeus  
*Fourth Edition* Published by **Willmann-Bell, Inc.**  
P.O. Box 35025 Richmond Virginia 23235  
Copyright © 1988 by Jean Meeus  
ISBN 0-943396-22-0

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# Changes And Updates



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## Changes since Version 1.01

**Increased** the price of the Popup Lunar-Calendar Source Code to **11.95\$US** from 10\$US to cover the extra charges for using the SWREG form and the cost of Emailing the files.

**Changed** the number of Module files to three by combining the **HOLIDAY.BAS** and **MOONPHAS.BAS** routines since they could no longer be separated easily from the Calendar Routines. see [Source Code](#)  
**New** help file

**Fixed** subTipsShow Bug for multiple menu entires before tips are shown

**Fixed** subTipsShow Bug for the menu already visible bug, duh!

**Added** a jump to TODAY button

**Added** date entry lower and upper ranges which work in two ways. If the calendar goes out of range by month or year scrollbars the calendar lets your user know by a message box and days that are out of range are simply disabled.

**Added** the entire user defined options windows which save to the users WIN.INI file under and the YourAppName variable.

**Added** a little bit of 3D appearance to the Calendar for effect and **Removed** the VBCTL3D.VBX option.

**Fixed** the today is a holiday colour problem, will appear **purple**.

**Changed** the icon, I like the new one better, but I will include the old icon with the source code.

**Removed** the Control Property variable, now the property is handled by the **If..Type Of..** code.

**Faster** Calendar update and display routines.

## Future Updates

I am **considering** using a comma delimited file in **your** programs directory to hold user definable holiday and Event information. **Is this a good idea?** You will have one more file to distribute!

Further Astronomy Routines Optimization.

## Known Bugs

the dates 10/5/1582 to 10/15/1582 incluse do not exist yet the Julian Date using the Astronomy Routines for 10/4/1582 and 10/16/1582 are 12 days apart, I'm not sure is this is correct, and I definity know it is not correct for the datediff function during this period. This also affects moonphases on the Calendar for the months September, October, and November of 1582.

But please understand that todays Georgian calendar was not even widely used until the 1700's.

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# SWREG



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At the CIS prompt type "go swreg" then register the Popup Lunar-Calendar  
- Product ID: 3487

## Full Information :

Author: Gerry Kichok  
CompuServe ID: [74072,3600]

Program Title: **POPUP LUNAR-CALENDAR** VERSION 1.10  
Registration ID: **3487**  
Fee (US\$): **11.95**

Upon receiving the registration notification from CompuServe I will Email you the latest Version 1.xx Source Code, and the Demo Code contained in a file, LC\_SC1.ZIP, approximately 30k in size. If you also require the latest help file please leave me private Email.

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## Support



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Lunar Popup-Calendar is a Canadian Product. If other Canadians wish to register this product in Canadian Fund\$ please contact me privately.

### How Crazy Rides Software can be reached :

Phone at 1-905-547-5487 between the hours of 9am - 9pm EST/EDT on regular business days.

Online via Compuserve ID# 74072,3600 using Private Email for Gerry Kichok

Or in the Compuserve MSBASIC Forum Section 17 3rd Party Products

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