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Subject: Re: Problem in converting birth date CMC from Afghan calendar to Gregorian calendar

Posted by [Trevor-DHS](#) on Fri, 24 Feb 2017 06:42:42 GMT

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Hi Jing,

Below is the conversion function used in CSPro:

```
{ Convert Persian calendar to Gregorian }
function dconvert(p_day,p_month,p_year); { Assume for all years that the vernal equinox is at
March 21st }
  xtemp = 1;
  if validyr(p_year) & p_month in 1:12 then

    g_year = p_year + 621;                                { 1;Hammal - 31 days (March-April)
    }
    if !(p_day in 1:31) then                               { 2;Saur - 31 days (April-May)
    }
    p_day = 15;                                           { 3;Jauza - 31 days (May-June)
    }
    endif;                                                { 4;Saratan - 31 days (June-July)
  }
  { number of days since start Persian year }              { 5;Asad - 31 days
(July-August) }
  box p_month => days;                                     { 6;Sonbola - 31 days
(August-September) }
    1-6 => (p_month-1) * 31 + p_day;                       { 7;Mizan - 30 days (September
- October) }
    => 186 + (p_month-7) * 30 + p_day;                    { 8;Aqrab - 30 days
(October-November) }
  endbox;                                                { 9;Qaus - 30 days (Novemebr -
December) }
  { Days between vernal equinox and Jan. 1st }            { 10;Jadi - 30 days
(December - January) }
  equinox = 80;                                          { 11;Dalw - 30 days (January-February)
  }
  { number of days Gregorian is under way }               { 12;Hut - 29/30 days
(February-March) }
  tdays = equinox + days;
  leapyear = (g_year%4 = 0);
  if !leapyear then
    if tdays > 365 then
      tdays = tdays - 365;
      g_year = g_year + 1;
    endif;
  else
    if tdays > 366 then
      tdays = tdays - 366;
```

```

    g_year = g_year + 1;
  endif;
endif;
if leapyear & tdays >= 60 then tdays = tdays - 1 endif;

```

```

{ Determine Gregorian month }

```

```

box tdays => g_month;

```

```

  <= 31 => 1;
  <= 59 => 2;
  <= 90 => 3;
  <= 120 => 4;
  <= 151 => 5;
  <= 181 => 6;
  <= 212 => 7;
  <= 243 => 8;
  <= 273 => 9;
  <= 304 => 10;
  <= 334 => 11;
  => 12;

```

```

endbox;

```

```

{ And the day in the month }

```

```

box tdays => g_day;

```

```

  <= 31 => tdays;
  <= 59 => tdays - 31;
  <= 90 => tdays - 59;
  <= 120 => tdays - 90;
  <= 151 => tdays - 120;
  <= 181 => tdays - 151;
  <= 212 => tdays - 181;
  <= 243 => tdays - 212;
  <= 273 => tdays - 243;
  <= 304 => tdays - 273;
  <= 334 => tdays - 304;
  => tdays - 334;

```

```

endbox;

```

```

else

```

```

  g_day = p_day;          { Cannot determine }

```

```

  if validyr(p_year) then

```

```

    g_year = p_year + 621; { most likely; first 9 months }

```

```

    g_month = p_month;    { DK/missing }

```

```

  else

```

```

    if p_month in 1:12 then

```

```

      g_year = p_year;    { DK/missing }

```

```

      box p_month => g_month;

```

```

        1-9 => p_month + 3; { most likely; 21 days out 31 }

```

```

        => p_month - 9;

```

```

      endbox;

```

```
else
  g_year = p_year; { DK/missing }
  g_month = p_month; { DK/missing }
endif;
endif;
endif;
if g_year = 2011 then
  g_year = 2010;
  g_month = 12;
endif;

dconvert = xtemp;
{errmsg("In:%d-%d-%d and out: %d-%d-%d",p_day,p_month,p_year,g_day,g_month,g_year); }
end;
```

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