GCAL CGI - MANUAL

Basic Info

Input: system variable QUERY_STRING
Output: standard output
Format of output: XML

Installation

gcal.exe should be copied into cgi-bin directory as any other CGI script. Also additional settings for Web Server should be performed so Web Server will know about this cgi program.

Implementation

Calling this script is performed via HTTP request.

http://<ip-address>/cgi-bin/gcal.exe?<parameters>

<parameters> is list of parameters separated by character &

<parameters> = <parameter1>&<parameter2>&.....&<parameterN>

<parameter> is pair of strings separated by character =

<parameter> <key>=<value>

In the document gcalcgi-examples are examples of <parameters> as well as output from gcal.exe given by these queries.

Next:
Functions (queries)
Parameters

Functions (Queries)

In the first column is value of key q. By character x is denoted that parameter, which is relevant for that query.

q	la	lo	lt	lc	ty	tm	td	th	tmin	tc	gy	gm	gp	gt	dst
firstday	x	x	x	x	x										
masastart	x	x	x	x	x	x	x								
appday	x	x	x	x	x	x	x	x	x						
sankranti	x	x	x	x	x	x	x			x					
calendar	x	x	x	x	x	x	x			x					x
gcalendar	x	x	x	x	x										x
naksatra	x	x	x	x	x	x	x			x					
gtithi	x	x	x	x	x	x	x			x					
tithi	x	x	x	x	x	x	x								
next	x	x	x	x	x	x	x					x	x	x	
gnaksatra	x	x	x	x							x	x			
paksastart	x	x	x	x	x	x	x								

Parameters

parameter key	explanation of value	example 1	example 2	possible values
la	latitude	12N30	15S06	
lo	longitude	56E13	10W45	
lt	timezone	5E30	7W00	
lc	location name	Mayapur		
ty	year	2008	1965	1500 ... 3000
tm	month	1	5	1...12
td	day	1	31	1...31
th	hour	5	17	0...23
tmin	minute	0	45	0...59
tc	count of days	10	300	1...84000
gy	gaurabda year	512	560	0...2500
gm	masa	0	3	0...11 (0 is for Visnu Masa)
gp	paksa	0	1	0 for Krsna Paksa, 1 for Gaura Paksa
gt	tithi	1	15	1...15 (1 for Pratipat, 15 for Purnima or Amavasya)
dst	daylight saving time data	3x0x5x0x10x0x5x0	11x0x5x0x3x0x5x0	Explanation below.

Daylight Saving Time data

This section explains the meaning of value of DST parameter in the query for calendar and gcalendar calculations.

Example:

3x0x5x0x10x0x5x0

Each parameter consists from 8 numbers separated by character 'x'.

First 4 numbers are for start date, second 4 numbers are for end date of DST within the year. Here is table with the meanings of numbers on given position:

position	meaning
1	starting month of DST
2	type of start day (0-start day is given by week and weekday within month, 1-start day is given by day within month)
3	if type is 0, then this is number of week (1,2,3,4 are absolute values, 5 means "last" week) if type is 1, then this is number of day within month (1, ..., 31)
4	if type is 0, then this is weekday number (0 ...sunday, 1..monday, ... 6..saturday) if type is 1, then this is ignored but dummy number should be placed here
5,6,7,8	the same as 1,2,3,4 except they are for ending date

Example 1:

DST is starting on last sunday in March and ending on first sunday in November

Starting month is March ==> 3
Start date is given by week and weekday so type is ==> 0
Last week is ==> 5
Sunday is ==> 0
Ending month is November ==> 11
Ending date is given by week and weekday so type is ==> 0
First week is ==> 1
Sunday is ==> 0

Now we have resulting string **3x0x5x0x11x0x1x0**

Example 2

DST is starting on March 15 and ending on last sunday in October

Starting month is March ==> 3
Start date is given by day number so type is ==> 1
Day is ==> 15
Dummy number ==> 0
Ending month is October ==> 10
Ending date is given by week and weekday so type is ==> 0
Last week is ==> 5
Sunday is ==> 0

Now we have string: **3x1x15x0x10x0x5x0**