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datain Documentation
version 2.0
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README
datain Documentation

/***/
Installation Instructions:
/***/
Windows NT: datain is delivered as an email attached file or on a DOS formatted floppy as a self extracting compressed set of files. Set your working directory to the appropriate destination directory (e.g. c:\grs) in which you want to place data_out and its associated processes.

Copy or move the file 'setup_di.exe' to the destination directory.
Then execute this file by selecting it in File Manager, Explorer, or whichever file managenment process you use.

This initiates a process that will unzip all the necessary files from the container file to the destination directory.

Window NT: As long as the destination directory is in your PATH, you can run datain from any directory. If your destination directory is not in your PATH, modify your PATH and add the directory in which datain resides to your PATH statement. Your destination directory should not be a system directory that may be deleted during either a product or system software removal or delivery.

datain support:

datain is developed, maintained, and supported by Geographic Resource Solutions
of Arcata, CA. Should you need support or information, or if you have suggestions
or feedback, please contact:

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/***/
Program Purpose:
/***/

datain is an ascii to dgn file translation utility.

Execution: datain is initiated in the WinNT environment in one of two ways,
by either starting the GUI or by submitting the perl script command line.
The process should be initiated in either a DOS Window or at the MGE Utility Command
prompt.

To start the GUI from the command line key-in :

datainf

To run the datain process from the command line using perl key-in :

perl -S datain.pl [args]

There are a number of options [args] that may be specified when you run datain.
You only need to input (on the command line) the options you desire, otherwise process
defaults will be used. segjoin is run by keying in the command line:

/***/
Process Arguments:
/***/

 datain options include:

   -a   [mslink offset]
   -c
   -ce   [cell_filename]
   -cn   [cellname]
   -d
   -f   [fontnumber]
   -i   [id_fieldname id_fieldtype]
   -o
   -s   [linestyle,weight,color]
   -txsc [text_map_scale]
   -txsz [text_size]
   -A   [memory_allocation_units]
   -C   [output_centroid_level]
   -D   [input_dgnfilename]
   -E   [entity_number]
   -I   [input_filename]
   -J   [text_justification]
   -L   [linework_level]
   -M   [initial_mslink or use-id flag(I)]
   -ND
   -NL
   -NS
   -NV

```
-O     [ output_option ]
-P     [ theme_type ]
-R     [ ulhcX,ulhcY,pixel_size ]
-S     [ source_type ]
-T     [ tablename ]
-U
-Z
-,

where [...] indicates a required flag argument
  and <...> indicates an optional flag argument


-c   INDICATES to input curves

-a     indicates to offset mslink values by the amount indicated by the value of
             the argument [ mslink_offset ].  This value may be positive or
             negative.

-c     indicates to input curves rather than line strings

-ce    indicates to look for cells in the cellfile identified by [ cell_filename ]

-cn    indicates to use the cell specified by [ cellname ] for point features

-d     indicates to output diagnostic messages

-f     indicates to output text/node elements with font equal to [ fontnumber ]

-i     indicates the columnname [ id_fieldname ] into which ids will be loaded.
             This column must be present in the table indicated using the -T flag.

-o     indicates to output 2 vertice lines as line string elements

-s     indicates to place linework elements with symbolic features as specified
             by the values of [ linestyle,weight,color ]

-txsc  indicates to place text elements scaled by the value of [ text_map_scale ]

-txsz  indicates to place text elements of the size specified by [ text_size ]

-z     indicates to read and input z_values into a 3d file

-A     indicates to allocate the number of memory units as specifed by the value
             of [ memory_allocation_units ].  The default is 8192.

-C     indicates to place centroid elements on the level specified by the value
             of [ output_centroid_level ]

-D     [ input_dgnfilename ] specifies name of the input design filename

-E     indicates the [ entity number ] of the table in which rows will be inserted

-I     [ input_filename ] specifies the name of the ascii file to translate into
             the design file.

-J     indicates to place text elements of the justification specified by
             [ text_justification ]

-L     indicates to place linework on the level specified by [ linework_level ]

-M     indicates to use the value of [ initial_mslink ] as the first mslink
             value to insert into the output tablename

-ND    indicates that no database options will be in effect
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```
   -O     indicates to place point features based on the value of [ output_option ]
                where options are:

                A  for Text
                C  for Cells
                T  for Textnodes

   -P     indicates to interpret input data on the basis of the value of
                [ theme_type ] where options are:

                A  for Area Data
                L  for Linear Data
                P  for Point Data
                T  for Annotation/Text Data

   -R     indicates to place centroids/points at the center of pixel cells as
                computed by the values of [ ulhcX,ulhcY,pixel_size ]

   -S     indicates to interpret input data on the basis of the value of
                [ source_type ] where options are:

                A  for Arc/Info Data
                E  for ETAK Data
                G  for GPS Data -configurable ASCII Output(header, coordinates, END)
                M  for MOSS Data
                T  for Autotrol Data
                X  for GPS X,Y Data - no header, one string of coordinates

   -T     indicates to insert rows into the table specified by [ tablename ]

   -,   INDICATES the input data is comma delimited


/*************************************************************************/
Examples:
/*************************************************************************/

perl -S datain.pl -D 147tmp.dgn -I 147.dat -S A -P A -L 63

perl -S datain.pl -D 0219.inv -I data\r0131219.pos -S G -P L -L 63 -C 62 -txsz 100

/* end of file - full documentation being developed */
```