SUBROUTINE SBYPOS

Description

This routine computes the grid points corresponding to the left end of the rows of points defining the basin boundary.

Calling Sequence

CALL SBYPOS (X,Y,XDEL,YDEL,IP,NBPTS,IY,IXB,IXE,MSEGS,IYP,LFACTR,ISTAT)

Argument List

Argument	Input/ Output	Type	Dimension	Description
X	I	R*4	NBPTS	Array of X coordinate basin boundary points
Y	I	R*4	NBPTS	Array of Y coordinate basin boundary points
XDEL	I	R*4	1	Computed absolute difference between current and next X coordinate
YDEL	I	R*4	1	Computed absolute difference between current and next Y coordinate
IP	I	I*4	1	Index of the current value in arrays X and Y
NBPTS	I	I*4	1	Number of basin boundary points
IY	O	I*4	MSEGS	Array of rows of grid points within defined basin
IXB	O	I*4	MSEGS	Array of columns of leftmost grid points within defined basin
IXE	O	I*4	MSEGS	Array of columns of rightmost grid points within defined basin
MSEGS	I	I*4	1	Maximum dimension of arrays IY, IXB and IXE
IYP	I/O	I*4	1	Pointer to location in arrays IY, IXB and IXE for next grid point to be defined

Argument	Input/ Output	Type	Dimension	Description
LFACTR	I	I*4	1	Density factor for the grid point definition
ISTAT	O	I*4	1	Status code: 0 = okay 1 = error