

## SUBROUTINE SBGRDF

### Description

This routine determines the slope of the line connecting pairs of basin boundary grid points and calls the appropriate routine to compute the basin grid point definition.

### Calling Sequence

CALL SBGRDF (X,Y,NBPTS,IY,IXB,IXE,NSEGS,IYP,LFACTR,ISTAT)

### Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
X	I	R*4	NBPTS	Array of X coordinate basin boundary points
Y	I	R*4	NBPTS	Array of Y coordinate basin boundary points
NBPTS	I	I*4	1	Number of pairs of coordinates
IY	O	I*4	NSEGS	Array of rows of grid points within defined basin
IXB	O	I*4	NSEGS	Array of columns of leftmost grid points within defined basin
IXE	O	I*4	NSEGS	Array of columns of rightmost grid points within defined basin
NSEGS	I	I*4	1	Dimension of arrays containing the grid point definitions
IYP	O	I*4	1	Pointer to location in IY, IXB and IXE arrays for next grid point to be defined
LFACTR	I	I*4	1	Density factor for the grid point definition: 1 = every point is stored 2 = every second point is stored, etc.
ISTAT	O	I*4	1	Status code: 0 = okay 1 = error