

## SUBROUTINE SRBASN

### Description

This routine reads a basin parameter array.

### Calling Sequence

CALL SRBASN (ARRAY, LARRAY, IVER, BASNID, DESCRP, FLAT, FLON, MBPTS, NBPTS,  
AREA, CAREA, ELEV, XC, YC, MAPFLG, MATFLG, PID, TID, PXID, MSEGS,  
NSEGS, IY, IXB, IXE, LFACTR, IPTR, IPTRNX, IPRERR, ISTAT)

### Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
ARRAY	I	R*4	LARRAY	Work array
LARRAY	I	I*4	1	Dimension of array ARRAY
IVER	O	I*4	1	Parameter array version number
BASNID	O	A*8	1	Basin boundary identifier
DESCRP	O	A*20	1	Descriptive information
FLAT	O	R*4	MBPTS	Array of latitude values (decimal degrees)
FLON	O	R*4	MBPTS	Array of longitude values (decimal degrees)
MBPTS	I	I*4	1	Dimension of arrays for basin boundary points
NBPTS	O	I*4	1	Number of basin boundary points
AREA	O	R*4	1	User specified basin area (KM2)
CAREA	O	R*4	1	Computed basin area (KM2)
ELEV	O	R*4	1	Mean basin elevation (M)
XC	O	R*4	1	X coordinate of the area centroid
YC	O	R*4	1	Y coordinate of the area centroid
MAPFLG	O	I*4	1	Update indicator for MAP parameters
MATFLG	O	I*4	1	Update indicator for MAT parameters

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PID	0	A*8	1	MAP area identifier
TID	0	A*8	1	MAT area identifier
PXID	0	A*8	1	MAPX area identifier
MSEGS	0	I*4	1	Dimension of arrays for grid segments
NSEGS	0	I*4	1	Number of NWSRFS/HRAP grid segments used to define the basin
IY	0	I*4	MSEGS	Array of rows of grid points within defined basin
IXB	0	I*4	MSEGS	Array of columns of leftmost grid points within defined basin
IXE	0	I*4	MSEGS	Array of columns of rightmost grid points within defined basin
LFACTR	0	I*4	1	Density factor for the grid point definition
IPTR	I/O	I*4	1	Record number of parameter record in the PPPDB
IPTRNX	0	I*4	1	Record number of next parameter record of this type
IPRERR	0	I*4	1	Indicator if to print error messages: 0 = no 1 = yes
ISTAT	0	I*4	1	Status code: 0 = okay 1 = error