

## SUBROUTINE SWBASN

### Description

This routine writes a basin parameter array.

### Calling Sequence

CALL SWBASN (ARRAY, LARRAY, IVER, BASNID, DESCRP, FLAT, FLON, NBPTS, AREA,  
CAREA, ELEV, XC, YC, MAPFLG, MATFLG, PID, TID, PXID, NSEGS,  
IY, IXB, IXE, LFACTR, DISP, NSPACE, 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	I	I*4	1	Parameter array version number
BASNID	I	A*8	1	Basin boundary identifier
DESCRP	I	A*20	1	Descriptive information
FLAT	I	R*4	NBPTS	Array of latitude values (decimal degrees)
FLON	I	R*4	NBPTS	Array of longitude values (decimal degrees)
NBPTS	I	I*4	1	Number of basin boundary points
AREA	I	R*4	1	User specified basin area (KM2)
CAREA	I	R*4	1	Computed basin area (KM2)
ELEV	I	R*4	1	Mean basin elevation (M)
XC	I	R*4	1	X coordinate of the area centroid
YC	I	R*4	1	Y coordinate of the area centroid
MAPFLG	I	I*4	1	Update indicator for MAP parameters
MATFLG	I	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	I	A*8	1	MAP area identifier
TID	I	A*8	1	MAT area identifier
PXID	I	A*8	1	MAPX area identifier
NSEGS	I	I*4	1	Number of NWSRFS/HRAP grid segments used to define the basin
IY	I	I*4	NSEGS	Array of rows of grid points within defined basin
IXB	I	I*4	NSEGS	Array of columns of leftmost grid points within defined basin
IXE	I	I*4	NSEGS	Array of columns of rightmost grid points within defined basin
LFACTR	I	I*4	1	Density factor for the grid point definition
DISP	I	A4	1	Disposition of definition: 'NEW' = definition does not exist 'OLD' = definition does exist
NSPACE	O	I*4	1	Indicator if to print blank line before parameter written/updated message: 0 = no 1 = yes
ISTAT	O	I*4	1	Status code: 0 = okay 1 = error