

SUBROUTINE SFQUAD

Description

This routine computes the weights for the NSTQ closest stations per quadrant.

Calling Sequence

CALL SFQUAD (IRTYPE, LX, LY, STAID, NSTQ, IPARM, ITYPE, IMNT, FE, IELEV, IPT, ISTAT)

Argument List

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
IRTYPE	I	I*4	1	Indicator for type of weighting to be done: 1 = for stations 2 = for areas
LX	I	I*4	1	Integer form of X coordinate of area centroid
LY	I	I*4	1	Integer form of Y coordinate of area centroid
STAID	I	A8	1	Identifier of station being weighted
NSTQ	I	I*4	1	Number of stations per quadrant
IPARM	I	I*4	1	Indicator for type of weight: 1 = MAP timing 2 or -2 = MAP station 3 = MAT 4 = maximum/minimum temperature 5 = instantaneous temperature 6 = future temperature 7 = MAPE
ITYPE	I	I*4	1	Indicator for weighting scheme: 1 = grid point 2 = Thiessen 3 = 1/d**power 4 = 1/d**2
IMNT	I	I*4	1	Indicator of mountainous area: 0 = non-mountainous 1 = mountainous

<u>Argument</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
FE	I	R*4	1	Fe factor for TEMP weights (KM/1000M)
IELEV	I	I*4	1	Mean elevation of area (M)
IPT	O	I*4	(4,*)	Array of pointers to weighted stations in common block SNTWKX
ISTAT	O	I*4	1	Status code: 0 = okay 1 = error