```
  1  000000I          SUBROUTINE NEWVIS                                                  763
  2  000004I          COMMON                                                             764
  3                  1/VAR/U(21,18,10),V(21,18,10),P(21,18,10),DK(21,18,10),            765
  4                  2  DE(21,18,10),ERRU,ERRV,ERRM,ERRK,ERRE,ERRW,                    766
  5                  3  PP(21,18,10),W(21,18,10),TM(21,18,10)                          767
  6                  1/PROP/ VISE(21,18,10),DEN(21,18,10),VISC,DENIN,FLOWIN             768
  7                  1/PCOR/ DU(21,18,10),DV(21,18,10),DW(21,18,10)                     769
  8                  1/TUR/ SIGK,SIGE,CMU,C1,C2,CMU1,CMU2,E,CK,HINUM,SMNUM,ANV1(800),   770
  9                  2 YN(800),YN1(800),SINX(800),SINY(800),SINZ(800),ANW1(800),        771
 10                  3 YPLN(800),TAUN(800),IBC(800),JBC(800),KBC(800),IITY(800),        772
 11                  4 TALW(800),GEN(21,18,10),MC(21,18,10),IJLO(21,18,10),IITO         773
 12  000004I          COMMON                                                             774
 13                  1/LIMT/ L,M,LT,MT,L1,L2,M1,M2,LO,MO,ISWU,ISWV,ISWP,ISWK,ISWE,      775
 14                  2   ALU,ALV,ALP,ALK,ALE,ALVIS,ALW,N,N1,N2,NO,ISWW,IG,NT,ALC,DTT    776
 15                C-----EVALUATE TURBULENT VISCOSITY                                   777
 16  000004I          DO 10 I=1,L                                                        778        1
 17  000018I          DO 10 J=1,M                                                        779        2
 18  00002CI          DO 10 K=1,N                                                        780        3
 19  000040I          IF(DK(I,J,K) .LE. SMNUM) DK(I,J,K)=SMNUM                           781        4
 20  00009EI          IF(DE(I,J,K) .LE. SMNUM) DE(I,J,K)=SMNUM                           782        6
 21  0000FCI          IF(DE(I,J,K) .LE. SMNUM) GO TO 12      -                           783        8
 22  000134I          TURVIS=DEN(I,J,K)*CMU*DK(I,J,K)**2/DE(I,J,K)+VISC                  784       10
 23  0001C2I          GO TO 14                                                           785       11
 24  0001C8I     12   TURVIS=VISC                                                        786       12
 25  0001D4I     14   CONTINUE                                                           787       13
 26  0001D4I          VISE(I,J,K)=VISE(I,J,K)+ALVIS*(TURVIS-VISE(I,J,K))                 788       14
 27  000252I     10   CONTINUE                                                           789       15
 28  00029AI          RETURN                                                             790       16
 29  0002A0I          END                                                                791       17

NO  ERRORS:F7D  R05-01.0C  SUBROUTINE  NEWVIS    02/21/86  09:51:23  TABLE SPACE:   5 KB
STATEMENT BUFFER:   20 LINES/1321 BYTES    STACK SPACE: 203 WORDS
SINGLE PRECISION FLOATING PT SUPPORT REQUIRED FOR EXECUTION
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