```
 1  000000I          SUBROUTINE SYMOUT(IC,IE,IS,IT,JS,JT,KS,KT)                                  1784
 2  000004I          COMMON                                                                      1785
 3                  1/VAR/U(21,18,10),V(21,18,10),P(21,18,10),DK(21,18,10),                     1786
 4                  2  DE(21,18,10),ERRU,ERRV,ERRM,ERRK,ERRE,ERRW,                              1787
 5                  3  PP(21,18,10),W(21,18,10),TM(21,18,10)                                    1788
 6                  1/PROP/ VISE(21,18,10),DEN(21,18,10),VISC,DENIN,FLOWIN                      1789
 7                  1/PCOR/ DU(21,18,10),DV(21,18,10),DW(21,18,10)                              1790
 8                  1/COEF/ AP(21,18,10),SU(21,18,10),SP(21,18,10),SUK(21,18,10),               1791
 9                  2   SPK(21,18,10),AE(21,18,10),AW(21,18,10),AN(21,18,10),                  1792
10                  3   AS(21,18,10),AT(21,18,10),AB(21,18,10),APO(21,18,10)                   1793
11  000004I          COMMON                                                                      1794
12                  1/TRAN/ X(21,18,10),Y(21,18,10),Z(21,18,10),TJO(21,18,10),                  1795
13                  2   CX(21,18,10),CY(21,18,10),CZ(21,18,10),                                 1796
14                  3   EX(21,18,10),EY(21,18,10),EZ(21,18,10),                                 1797
15                  3   SX(21,18,10),SY(21,18,10),SZ(21,18,10)                                  1798
16                  1/UNSTDY/UO(21,18,10),VO(21,18,10),WO(21,18,10),DKO(21,18,10),              1799
17                  2   CEO(21,18,10),DENO(21,18,10),TMO(21,18,10)                              1800
18                  1/LIMT/ L,M,LT,MT,L1,L2,M1,M2,LO,MO,ISWU,ISWV,ISWP,ISWK,ISWE,               1801
19                  2   ALU,ALV,ALP,ALK,ALE,ALVIS,ALW,N,N1,N2,NO,ISWW,IG,NT,ALC,DTT             1802
20              C-----SYMMETRIC, CYCLIC AND EXIT CONDITIONS AND LINK MODIFICATIONS               1803
21  000004I          GO TO (1,2,3), IC                                                           1804        1
22  00002EI      1   CONTINUE                                                                    1805        2
23              C-----BOTTOM                                                                    1806
24  00002EI          K=1                                                                         1807        3
25  000036I          DO 10 I=1,L                                                                 1808        4
26  00004AI          DO 10 J=2,MT                                                                1809        5
27  00005EI          U(I,J,K)=U(I,J,K+1)                                                         1810        6
28  0000ACI          V(I,J,K)=V(I,J,K+1)                                                         1811        7
29  0000FAI          W(I,J,K)=0.0                                                                1812        8
30  00012CI          TM(I,J,K)=TM(I,J,K+1)                                                       1813        9
31  000174I          DK(I,J,K)=DK(I,J,K+1)                                                       1814       10
32  0001C2I          DE(I,J,K)=DE(I,J,K+1)                                                       1815       11
33  000210I      10  CONTINUE                                                                    1816       12
34              C-----EAST OUT (BASED ON INFLOW MASS FLOW RATE)                                  1817
35  000240I          I=IT                                                                        1818       13
36  00024CI          FLOW=0.0                                                                    1819       14
37  000258I          ARDEN=0.0                                                                   1820       15
38  000264I          DO 50 J=2,JT                                                                1821       16
39  000278I          DO 50 K=2,KT                                                                1822       17
40  00028CI          UC=(V(I,J,K)+V(I,J-1,K)+V(I,J,K-1)+V(I,J-1,K-1))*0.25                       1823       18
41  00033CI          DENC=(DEN(I,J,K)+DEN(I,J-1,K)+DEN(I,J,K-1)+DEN(I,J-1,K-1))*0.25             1824       19
42  0003ECI          P1=(X(I,J,K)+X(I,J,K-1)-X(I,J-1,K)-X(I,J-1,K-1))*0.5                        1825       20
43  00049CI          P2=(Y(I,J,K)+Y(I,J,K-1)-Y(I,J-1,K)-Y(I,J-1,K-1))*0.5                        1826       21
44  00054CI          P3=(Z(I,J,K)+Z(I,J,K-1)-Z(I,J-1,K)-Z(I,J-1,K-1))*0.5                        1827       22
45  0005FCI          Q1=(X(I,J,K)+X(I,J-1,K)-X(I,J,K-1)-X(I,J-1,K-1))*0.5                        1828       23
46  0006ACI          Q2=(Y(I,J,K)+Y(I,J-1,K)-Y(I,J,K-1)-Y(I,J-1,K-1))*0.5                        1829       24
47  00075CI          Q3=(Z(I,J,K)+Z(I,J-1,K)-Z(I,J,K-1)-Z(I,J-1,K-1))*0.5                        1830       25
48  00080CI          AREA=SQRT(P1*P1+P2*P2+P3*P3)*SQRT(Q1*Q1+Q2*Q2+Q3*Q3)                         1831       26
49  0008A8I          FLOW=FLOW+DENC*AREA*UC                                                      1832       27
50  0008C6I          ARDEN=ARDEN+DENC*AREA                                                       1833       28
51  0008DEI      50  CONTINUE                                                                    1834       29
52  0009DEI          UINC=(FLOW-FLOWIN)/ARDEN                                                    1835       30
53  000926I          DO 60 J=2,JT                                                                1836       31
54  00093AI          DO 60 K=2,KT                                                                1837       32
55  00094EI          U(I+1,J,K)=U(I,J,K)                                                         1838       33
56  00099EI          V(I+1,J,K)=V(I,J,K)-UINC                                                    1839       34
57  0009F4I          W(I+1,J,K)=W(I,J,K)                                                         1840       35
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