```
115   00570AI        CONT=GAN*TZYN(I,J,K)+GAT*TYZT(I,J,K)                                906    77
116   00583AI        DDNB=-GAN*TZYN(I,J,K)-GAB*TYZB(I,J,K)                               907    78
117   0058A2I        DDST=-GAS*TZYS(I,J,K)-GAT*TYZT(I,J,K)                               908    79
118   00590AI        DDSB=GAS*TZYS(I,J,K)+GAB*TYZB(I,J,K)                                909    80
119   00596AI        SU(I,J,K)=CP0*F(I,J,K)+DDNE*F(I+1,J+1,K)+DDSE*F(I+1,J-1,K)+         910    81
120               1        DDNW*F(I-1,J+1,K)+DDSW*F(I-1,J-1,K)+                          911
121               2        DDET*F(I+1,J,K+1)+DDEB*F(I+1,J,K-1)+                          912
122               3        DDWT*F(I-1,J,K+1)+DDWB*F(I-1,J,K-1)+                          913
123               4        DDNT*F(I,J+1,K+1)+DDNB*F(I,J+1,K-1)+                          914
124               5        DDST*F(I,J-1,K+1)+DDSB*F(I,J-1,K-1)                           915
125   005C82I        DV(I,J,K)=CP0*V(I,J,K)+DDNE*V(I+1,J+1,K)+DDSE*V(I+1,J-1,K)+         916    82
126               1        DDNW*V(I-1,J+1,K)+DDSW*V(I-1,J-1,K)+                          917
127               2        DDET*V(I+1,J,K+1)+DDEB*V(I+1,J,K-1)+                          918
128               3        DDWT*V(I-1,J,K+1)+DDWB*V(I-1,J,K-1)+                          919
129               4        DDNT*V(I,J+1,K+1)+DDNB*V(I,J+1,K-1)+                          920
130               5        DDST*V(I,J-1,K+1)+DDSB*V(I,J-1,K-1)                           921
131   005F4CI        DW(I,J,K)=CP0*W(I,J,K)+DDNE*W(I+1,J+1,K)+DDSE*W(I+1,J-1,K)+         922    83
132               1        DDNW*W(I-1,J+1,K)+DDSW*W(I-1,J-1,K)+                          923
133               2        DDET*W(I+1,J,K+1)+DDEB*W(I+1,J,K-1)+                          924
134               3        DDWT*W(I-1,J,K+1)+DDWB*W(I-1,J,K-1)+                          925
135               4        DDNT*W(I,J+1,K+1)+DDNB*W(I,J+1,K-1)+                          926
136               5        DDST*W(I,J-1,K+1)+DDSB*W(I,J-1,K-1)                           927
137   006216I        PP(I,J,K)=CP0*DK(I,J,K)+DDNE*DK(I+1,J+1,K)+DDSE*DK(I+1,J-1,K)+      928    84
138               1        DDNW*DK(I-1,J+1,K)+DDSW*DK(I-1,J-1,K)+                         929
139               2        DDET*DK(I+1,J,K+1)+DDEB*DK(I+1,J,K-1)+                         930
140               3        DDWT*DK(I-1,J,K+1)+DDWB*DK(I-1,J,K-1)+                         931
141               4        DDNT*DK(I,J+1,K+1)+DDNB*DK(I,J+1,K-1)+                         932
142               5        DDST*DK(I,J-1,K+1)+DDSB*DK(I,J-1,K-1)                          933
143   0064E0I        SUK(I,J,K)=CP0                                                      934    85
144   00650CI        SPK(I,J,K)=-CP0-APC(I,J,K)                                          935    86
145   006564I        UCXI=UE-UW                                                          936    87
146   006576I        UEDA=UN-US                                                          937    88
147   006589I        USCI=UT-UB                                                          938    89
148   00659AI        VCXI=VE-VW                                                          939    90
149   0065ACI        VEDA=VN-VS                                                          940    91
150   0065BEI        VSCI=VT-VB                                                          941    92
151   0065D0I        WCXI=WE-WW                                                          942    93
152   0065E2I        WEDA=WN-WS                                                          943    94
153   0065F4I        WSCI=WT-WB                                                          944    95
154   006606I        UX=UCXI*CX(I,J,K)+UEDA*EX(I,J,K)+USCI*SX(I,J,K)                     945    96
155   006694I        UY=UCXI*CY(I,J,K)+UEDA*EY(I,J,K)+USCI*SY(I,J,K)                     946    97
156   006722I        UZ=UCXI*CZ(I,J,K)+UEDA*EZ(I,J,K)+USCI*SZ(I,J,K)                     947    98
157   0067B0I        VX=VCXI*CX(I,J,K)+VEDA*EX(I,J,K)+VSCI*SX(I,J,K)                     948    99
158   00683EI        VY=VCXI*CY(I,J,K)+VEDA*EY(I,J,K)+VSCI*SY(I,J,K)                     949   100
159   0068CCI        VZ=VCXI*CZ(I,J,K)+VEDA*EZ(I,J,K)+VSCI*SZ(I,J,K)                     950   101
160   00695AI        WX=WCXI*CX(I,J,K)+WEDA*EX(I,J,K)+WSCI*SX(I,J,K)                     951   102
161   0069E8I        WY=WCXI*CY(I,J,K)+WEDA*EY(I,J,K)+WSCI*SY(I,J,K)                     952   103
162   006A76I        WZ=WCXI*CZ(I,J,K)+WEDA*EZ(I,J,K)+WSCI*SZ(I,J,K)                     953   104
163   006B04I        GEN(I,J,K)=VISE(I,J,K)*((UY+VX)**2+(VZ+WY)**2+(WX+UZ)**2+           954   105
164               1        2*(UX*UX+VY*VY+WZ*WZ))                                        955
165   006BE6I    20  CONTINUE                                                            956   106
166            C-------------------------------------------------------------------------  957
167   006C2EI    29  CONTINUE                                                            958   107
168            C-----CALCULATE SOURCE TERMS                                             959
169   006C2EI        GO TO (1,2,3,4,5,6,7), IE                                           960   108
170            C-----U-, V-, W-SOURCES                                                  961
171   006C66I     1  CONTINUE                                                            962   109
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