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0111      C2=C.0
0112      S3=0.0
0113      S2C1=0.0
0114      S1C2=0.0
0115      C3=C.0
0116      DO 78 I=1,L
0117      SCAD=KONT(I)*SCEK
0118      SCAD2=SCAD*SCAD
0119      SCAD3=SCAD2*SCAD
0120      CCNCZ=(KONC(I)-CCNCL)/(CCNCM-CCNCL)
0121      CCAD=SCAD*CCNCZ
0122      CCAD2=CCAD*CCNCZ
0123      STCT=STCT+SCAD
0124      S1=S1+SCAD2
0125      C1=C1+CCAD
0126      S2=S2+SCAD3
0127      S1C1=S1C1+SCAD*CCAD
0128      C2=C2+CCAD2
0129      S3=S3+SCAD3*SCAD
0130      S2C1=S2C1+SCAD2*CCAD
0131      S1C2=S1C2+SCAD*CCAD2
0132      C3=C3+CCAD2*CCNCZ
0133      ZMCL(I)=ZMCL(I)-KONT(I)*CCNCL
0134      IF (ZMCL(I).GT.ZMMCL) ZMMCL=ZMCL(I)
0135      IF (KONT(I).LE.LMCL(I)) GO TO 78
0136      DO 72 I1=2,40
0137      IF (KONT(I1).LE.LMCL(I1)) GO TO 77
0138      72  LMCL(I1-1)=LMCL(I1)
0139      I1=I1+1
0140      77  LMCL(I1-1)=KONT(I)
0141      78  CONTINUE
0142      SUM=C.0
0143      DO 52 IF=0,25
0144      I=40-IF
0145      SUM=SUM+LMCL(I)*SCEK/STCT
0146      IF (SUM.GT.DPC.AND.LMCL(I).NE.LMCL(I-1)) GO TO 54
0147      52  CONTINUE
0148      54  LMC=LMCL(I-1)
0149      IF (DPM.GT.C.0) LMC=DPM/SCEK
0150      DO 21 I=1,NMA
0151      VMAR(I)=0.0
0152      VLMAR(I)=0.0
0153      21  CMAR(I)=0.0
0154      KGR=NDIP
0155      IF (NDIM.GT.NDIP) KGR=NDIM
0156      DO 85 I=1,KGP
0157      DO 85 J=1,KGB
0158      CDIST(I,J)=0.0
0159      CSDT(I,J)=0.0
0160      CLDST(I,J)=0.0
0161      85  MDSI(I,J)=C
0162      DCM=(CCNCM-CCNCL)/(NDJP-C.001)
0163      DVM=(LMC-NKSD)/(NDIP-1.001)
0164      EC=(CCNCM-CCNCL)/(NDIM-C.0001)
0165      DM=ZMMCL/(NDIV-C.001)

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