ADAS Subroutine outtmp

```fortran
      SUBROUTINE OUTTMP(TITLE,MN,RX3,DPT,EHCT,NHCT,LHCT,NIP,NEX,IPRT,
     & NDEL,INTD,IPRS,ILOW,IONIP,NIONIP,ILPRS,IVDISP,ZEFF,
     & DEDEG,NL1,NL2,NL3,Z0,Z1,ALF,AMSZ0,AMSHYD,LP,ISP,LMAX,
     & NTAIL,LSWCH,IGHNL,IRNDGV,MJ,IREF,JREF,SREF,WREF,CREF,
     & WIREF,WCREF,MG,IRA,TE,TP,TS,DENS,DENSP,W,BMENER,DENSH,
     & NIMP,ZIMPA,AMIMPA,FRIMPA,ZP,EMP,NGA,LGA,ISGA,NGLA,INAL,
     & INALTG,ANAEGY,ANAFPG,NSERA,LAA,LTAA,INBL,INBLT,INBIN0,
     & INBN1,ANBE1,INBN2,ANBE2,INBN3,ANBE3,INREP,ILREP,ILTREP,
     & NREP,INLREP1,INLMP,IUTMP,IDIEL,EIJA,FIJA,CORA,EIJSA,
     & FIJSA,CORSA )
C----------------------------------------------------------------------
C
C  ******************** FORTRAN 77 ROUTINE : OUTTMP ********************
C
C  PURPOSE : ROUTINE TO WRITE INPUT TO TEMPORARY FILE.
C
C
C  CONTACT : HARVEY ANDERSON
C            UNIVERSITY OF STRATHCLYDE
C            ANDERSON@BARWANI.PHYS.STRATH.AC.UK
C
C  DATE    : 04/21/98
C
C
C  VERSION : 1.2
C  MODIFIED: RICHARD MARTIN
C  DATE    : 21-03-2000
C            DECLARED LOGICAL VARIABLE LOPEN.
C
C  VERSION : 1.3
C  MODIFIED: Martin O'Mullane
C  DATE    : 3-6-2000
C            Tidied code to be within column 72.
C            TITLE was passed as c*6 but here was c*1 title(10).
C            Change to make them compatible and alter writing of
C            TITLE to file.
C
C  VERSION : 1.4
C  MODIFIED: Martin O'Mullane
C  DATE    : 20-01-2004
C            Further code tidying.
C
C----------------------------------------------------------------------

      CHARACTER*6         TITLE
      INTEGER             IDIEL,       IGHNL,       ILOW,        ILPRS
      INTEGER             ILREP,       ILTREP,      INAL(2,10)
      INTEGER             INALTG(2,10),             INBIN0(2,10)
      INTEGER             INBL(2,10),  INBLT(2,10), INBN1(2,10)
      INTEGER             INBN2(2,10), INBN3(2,10), INLMP(10,10)
      INTEGER             INLREP1(10), INREP,       INTD,        IONIP
      INTEGER             IPRS,        IPRT,        IRA(20)
```

```
INTEGER            IREF(10),     IRNDGV,       ISGA(2),      ISP
INTEGER            IUTMP,        IVDISP,       JREF(10),     LAA(2)
INTEGER            LGA(2),       LHCT,         LMAX,         LP
INTEGER            LSWCH,        LTAA(2),      MG,           MJ
INTEGER            MN,           NDEL,         NEX,          NGA(2)
INTEGER            NGLA(2),      NHCT,         NIMP,         NIONIP
INTEGER            NIP,          NL1,          NL2,          NL3
INTEGER            NREP(31),     NSERA(2),     NTAIL
REAL*8             ALF,          AMIMPA(10),   AMSHYD,       AMSZ0
REAL*8             ANAEGY(2,10),               ANAFPG(2,10)
REAL*8             ANBE1(2,10),  ANBE2(2,10),  ANBE3(2,10),  BMENER
REAL*8             CORA(10,6),   CORSA(10,6),  CREF(10),     DEDEG
REAL*8             DENS,         DENSH,        DENSP,        DPT
REAL*8             EHCT,         EIJA(10),     EIJSA(10),    EMP
REAL*8             FIJA(10),     FIJSA(10),    FRIMPA(10),   RX3
REAL*8             SREF(10),     TE,           TP,           TS
REAL*8             W,            WCREF(10),    WIREF(10)
REAL*8             WREF(10),     Z0,           Z1,           ZEFF
REAL*8             ZIMPA(10),    ZP
```