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=======================================================================RELABEL
                                                                       RELABEL
     PROGRAM RELABEL                                                    RELABEL
     ===============                                                    RELABEL
     VERSION 69-1 (APRIL 1969)                                          RELABEL
     VERSION 73-1 (JUNE 1973)                                           RELABEL
     VERSION 77-1 (SEPTEMBER 1977)                                      RELABEL
     VERSION 80-1 (AUGUST 1980) IBM VERSION                             RELABEL
     VERSION 83-1 (JANUARY 1983) COMBINED STATEMENT NUMBER SEQUENCE     RELABEL
                                 AND LINE I.D. INTO ONE PROGRAM.        RELABEL
     VERSION 86-1 (JANUARY 1986) FORTRAN-77/H VERSION                   RELABEL
     VERSION 88-1 (JULY 1988)    *OPTION...INTERNALLY DEFINE ALL I/O    RELABEL
                                  FILE NAMES (SEE, SUBROUTINES FILIO1   RELABEL
                                  AND FILIO2 FOR DETAILS).              RELABEL
                                 *IMPROVED BASED ON USER COMMENTS.      RELABEL
     VERSION 89-1 (JANUARY 1989)*PSYCHOANALYZED BY PROGRAM FREUD TO     RELABEL
                                  INSURE PROGRAM WILL NOT DO ANYTHING   RELABEL
                                  CRAZY.                                RELABEL
                                 *UPDATED TO USE NEW PROGRAM CONVERT    RELABEL
                                  KEYWORDS.                             RELABEL
                                 *ADDED LIVERMORE CIVIC COMPILER        RELABEL
                                  CONVENTIONS.                          RELABEL
     VERSION 92-1 (JANUARY 1992)*ADDED FORTRAN SAVE OPTION              RELABEL
     VERSION 94-1 (JANUARY 1994)*COMPLETE RE-WRITE                      RELABEL
                                 *OUTPUT MINIMUM NON-BLANK LENGTH FOR   RELABEL
                                  EACH LINE - NO SEQUENCE NUMBERS.      RELABEL
                                 *INCREASED MAXIMUM NUMBER OF LABELS    RELABEL
                                  PER ROUTINE FROM 1000 TO 50,000       RELABEL
                                 *CAN NOW PROCESS UPPER OR LOWER CASE   RELABEL
                                  CODING.                               RELABEL
                                 *SKIP IMBEDDED BLANKS IN KEYWORDS.     RELABEL
                                 *ADDED WRITE(XX,XX,ERR=YYY,END=ZZZ)    RELABEL
                                 *ADDED OPEN(XX,ERR=YYY,END=ZZZ)        RELABEL
                                 *ADDED CLOSE(XX,ERR=YYY,END=ZZZ)       RELABEL
                                 *INTEGER INSTEAD OF CHARACTERS IS NO   RELABEL
                                  LONGER SUPPORTED - ALL CHARACTERS     RELABEL
                                  MUST BE IDENTIFIED AS CHARACTERS.     RELABEL
                                 *VARIABLE FILENAMES TO ALLOW ACCESS    RELABEL
                                  FILE STRUCTURES                       RELABEL
                                  (WARNING - INPUT PARAMETER FORMAT     RELABEL
                                  HAS BEEN CHANGED)                     RELABEL
                                 *CLOSE ALL FILES BEFORE TERMINATING    RELABEL
                                  (SEE, SUBROUTINE ENDIT)               RELABEL
     VERSION 96-1 (JANUARY 1996) *COMPLETE RE-WRITE                     RELABEL
                                 *IMPROVED COMPUTER INDEPENDENCE        RELABEL
                                 *ALL DOUBLE PRECISION                  RELABEL
                                 *ON SCREEN OUTPUT                      RELABEL
                                 *IMPROVED OUTPUT PRECISION             RELABEL
                                 *DEFINED SCRATCH FILE NAMES            RELABEL
                                 *INCREASED THE NUMBER OF LABELS        RELABEL
                                  IN A ROUTINE FOR 5,000 TO 50,000      RELABEL
     VERSION 99-1 (MARCH 1999)   *GENERAL IMPROVEMENTS BASED ON         RELABEL
                                  USER FEEDBACK                         RELABEL
     VERS. 2000-1 (FEBRUARY 2000)*UPDATED TO IGNORE ( AND ) IN QUOTES   RELABEL
                                 *GENERAL IMPROVEMENTS BASED ON         RELABEL
                                  USER FEEDBACK                         RELABEL
     VERS. 2002-1 (MAY 2002)     *OPTIONAL INPUT PARAMETERS             RELABEL
                                 *CORRECTED END=, ERR=, WHEN I/O UNIT   RELABEL
                                  NUMBER IS DIMENSIONED                 RELABEL
     VERS. 2004-1 (MARCH 2004)   *ADDED INCLUDE FOR COMMON              RELABEL
                                 *INCREASED THE NUMBER OF LABELS IN     RELABEL
                                  A ROUTINE FOR 50,000 TO 100,000       RELABEL
     VERS. 2007-1 (DEC.  2007)   *72 CHARACTER FILE NAMES.              RELABEL
     VERS. 2010-1 (Apr.  2010)   *General update based on user feedbackRELABEL
     VERS. 2012-1 (Aug.  2012)   *Added CODENAME                       RELABEL
                                 *32 and 64 bit COMPATIBLE             RELABEL
                                 *Added ERROR stop                     RELABEL
     VERS. 2015-1 (Jan.  2015)   *Replaced ALL 3 way IF Statements.     RELABEL
     VERS. 2017-1 (May   2017)   *Updated based on user feedback.       RELABEL
     VERS. 2018-1 (Jan.  2018)   *On-line output for ALL ENDERROR       RELABEL
     VERS. 2019-1 (June  2019)   *Identical to 2018-1                   RELABEL
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VERS. 2020-1 (Feb.  2020)   *Identical to 2018-1          RELABEL
VERS. 2021-1 (Jan.  2021)   *Update fot FORTRAN 2018      RELABEL
                                                          RELABEL
OWNED, MAINTAINED AND DISTRIBUTED BY                      RELABEL
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THE NUCLEAR DATA SECTION                                  RELABEL
INTERNATIONAL ATOMIC ENERGY AGENCY                        RELABEL
P.O. BOX 100                                              RELABEL
A-1400, VIENNA, AUSTRIA                                   RELABEL
EUROPE                                                    RELABEL
                                                          RELABEL
ORIGINALLY WRITTEN BY                                     RELABEL
-----------------------------------                       RELABEL
Dermott E. Cullen                                         RELABEL
                                                          RELABEL
PRESENT CONTACT INFORMATION                               RELABEL
--------------------------                                RELABEL
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                                                          RELABEL
PURPOSE                                                   RELABEL
-------                                                   RELABEL
THIS PROGRAM IS DESIGNED TO RE-LABEL A FORTRAN PROGRAM SO THAT  RELABEL
STATEMENT LABELS ARE IN INCREASING ORDER IN INCREMENTS OF 10    RELABEL
WITHIN EACH ROUTINE.                                     RELABEL
                                                          RELABEL
THE FOLLOWING TYPES OF FORTRAN STATEMENTS ARE CONSIDERED, RELABEL
                                                          RELABEL
GO TO NN                                                  RELABEL
GO TO (NN,MM,.....,JJ,KK),LL (MULTI LINE O.K.)            RELABEL
DO NN                                                     RELABEL
IF(......) NN,MM,...JJ,KK                                 RELABEL
IF(......) GO TO NN                                       RELABEL
IF(......) GO TO (NN,MM,.....,JJ,KK),LL (MULTI LINE O.K.) RELABEL
IF(......) READ(.....,END=NN,ERR=MM)                      RELABEL
IF(......) WRITE(.....,END=NN,ERR=MM)                     RELABEL
READ(......,END=NN,ERR=MM)                                RELABEL
OPEN(......,END=NN,ERR=MM)                                RELABEL
                                                          RELABEL
GO TO STATEMENTS MAY APPEAR IN THE FORM 'GO TO' OR 'GOTO'. IF  RELABEL
THERE IS ROOM ON THE LINE 'GOTO' WILL BE CONVERTED TO 'GO TO'.  RELABEL
WHETHER OR NOT 'GOTO' IS CONVERTED TO 'GO TO' IT WILL BE TREATED  RELABEL
AS IDENTICAL TO 'GO TO' FOR SUBSEQUENT PROCESSING AND RELACEMENT  RELABEL
OF STATEMENT NUMBERS.                                     RELABEL
                                                          RELABEL
ALL OTHER STATEMENT TYPES ARE NOT CHANGED. IN PARTICULAR ALL I/O  RELABEL
STATEMENTS AND ASSOCIATED FORMAT STATEMENTS ARE NOT CONVERTED.  RELABEL
                                                          RELABEL
WARNING                                                   RELABEL
-------                                                   RELABEL
THIS PROGRAM IS ONLY DESIGNED TO MAINTAIN ENDF/B PRE-PROCESSING  RELABEL
PROGRAMS, WHICH ONLY USE A RESTRICTED SET OF FORTRAN STATEMENT  RELABEL
TYPES THAT CAN BE USED ON A VARIETY OF DIFFERENT TYPES OF  RELABEL
COMPUTERS. THIS PROGRAM IS NOT DESIGNED TO HANDLE ALL POSSIBLE  RELABEL
TYPES OF FORTRAN STATEMENTS.                              RELABEL
                                                          RELABEL
THE FORTRAN STATEMENTS DESCRIBED ABOVE AND TREATED BY THIS PROGRAMRELABEL
DO NOT INCLUDE ALL POSSIBLE FORTRAN STATEMENTS. AS SUCH THIS  RELABEL
PROGRAM IS NOT COMPLETELY GENERAL AND SHOULD ONLY BE USED WITH  RELABEL
PROGRAMS THAT ONLY USE THE FORTRAN STATEMENTS DESCRIBED ABOVE.  RELABEL
                                                          RELABEL
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO ERROR IN PROGRAMSRELABEL
                                                          RELABEL
OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINES FILIO1 AND FILIO2)  RELABEL
-------------------------------------------------------------  RELABEL
UNIT  FILE NAME    DESCRIPTION                            RELABEL
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  ----   ----------   -----------                            RELABEL
    2    RELABEL.INP   INPUT PARAMETERS                       RELABEL
    3    RELABEL.LST   OUTPUT REPORT                          RELABEL
   10    RELABEL.IN    PROGRAM TO READ                        RELABEL
   11    RELABEL.OUT   PROGRAM TO WRITE                       RELABEL
   12    (SCRATCH)                                            RELABEL
                                                              RELABEL
INPUT CARDS                                                   RELABEL
----------                                                   RELABEL
LINE   COLUMNS  DEFINITION                                    RELABEL
----   -------  ----------                                    RELABEL
    1    1-72    INPUT PROGRAM FILENAME                       RELABEL
                 (STANDARD OPTION = RELABEL.IN)               RELABEL
    2    1-72    OUTPUT PROGRAM FILENAME                      RELABEL
                 (STANDARD OPTION = RELABEL.OUT)              RELABEL
                                                              RELABEL
LEAVE THE DEFINITION OF THE FILENAMES BLANK - THE PROGRAM WILL  RELABEL
THEN USE STANDARD FILENAMES.                                  RELABEL
                                                              RELABEL
EXAMPLE INPUT NO. 1                                           RELABEL
------------------                                            RELABEL
TO READ \PREPRO94\RECENT\RECENT.FOR AND                       RELABEL
WRITE   \PREPRO94\RECENT\RECENT.NEW THE FOLLOWING 2 INPUT LINES  RELABEL
ARE REQUIRED,                                                 RELABEL
                                                              RELABEL
\PREPRO94\RECENT\RECENT.FOR                                   RELABEL
                                                              RELABEL
EXAMPLE INPUT NO. 2                                           RELABEL
------------------                                            RELABEL
TO READ RELABEL.IN AND WRITE RELABEL.OUT THE FOLOWING 2 INPUT  RELABEL
LINES ARE REQUIRED,                                           RELABEL
                                                              RELABEL
RELABEL.IN                                                    RELABEL
RELABEL.OUT                                                   RELABEL
                                                              RELABEL
EXAMPLE INPUT NO. 3                                           RELABEL
------------------                                            RELABEL
TO READ RELABEL.IN AND WRITE RELABEL.OUT, SINCE THESE ARE THE  RELABEL
STANDARD OPTIONS THE 2 INPUT LINES CAN BE COMPLETELY BLANK.   RELABEL
                                                              RELABEL
========================================================================RELABEL
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