

=====	Relabel
PROGRAM 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 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 FILE NAMES (SEE, SUBROUTINES FILIO1 AND FILIO2 FOR DETAILS).	Relabel
*IMPROVED BASED ON USER COMMENTS.	Relabel
VERSION 89-1 (JANUARY 1989) *PSYCHOANALYZED BY PROGRAM FREUD TO INSURE PROGRAM WILL NOT DO ANYTHING CRAZY.	Relabel
*UPDATED TO USE NEW PROGRAM CONVERT KEYWORDS.	Relabel
*ADDED LIVERMORE CIVIC COMPILER 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 EACH LINE - NO SEQUENCE NUMBERS.	Relabel
*INCREASED MAXIMUM NUMBER OF LABELS PER ROUTINE FROM 1000 TO 50,000	Relabel
*CAN NOW PROCESS UPPER OR LOWER CASE 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 LONGER SUPPORTED - ALL CHARACTERS MUST BE IDENTIFIED AS CHARACTERS.	Relabel
*VARIABLE FILENAMES TO ALLOW ACCESS FILE STRUCTURES (WARNING - INPUT PARAMETER FORMAT HAS BEEN CHANGED)	Relabel
*CLOSE ALL FILES BEFORE TERMINATING (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 IN A ROUTINE FOR 5,000 TO 50,000	Relabel
VERSION 99-1 (MARCH 1999) *GENERAL IMPROVEMENTS BASED ON USER FEEDBACK	Relabel
VERS. 2000-1 (FEBRUARY 2000) *UPDATED TO IGNORE (AND) IN QUOTES	Relabel
*GENERAL IMPROVEMENTS BASED ON USER FEEDBACK	Relabel
VERS. 2002-1 (MAY 2002) *OPTIONAL INPUT PARAMETERS	Relabel
*CORRECTED END=, ERR=, WHEN I/O UNIT NUMBER IS DIMENSIONED	Relabel
VERS. 2004-1 (MARCH 2004) *ADDED INCLUDE FOR COMMON	Relabel
*INCREASED THE NUMBER OF LABELS IN A ROUTINE FOR 50,000 TO 100,000	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
ORIGINALLY WRITTEN BY	Relabel
-----	Relabel
DERMOTT E. CULLEN	Relabel
UNIVERSITY OF CALIFORNIA	Relabel
LAWRENCE LIVERMORE NATIONAL LABORATORY	Relabel
L-159	Relabel
P.O. BOX 808	Relabel
LIVERMORE, CA 94550	Relabel
U.S.A.	Relabel
TELEPHONE 925-423-7359	Relabel
E. MAIL CULLEN1@LLNL.GOV	Relabel
WEBSITE HTTP://WWW.LLNL.GOV/CULLEN1	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
THE FOLLOWING TYPES OF FORTRAN STATEMENTS ARE CONSIDERED,	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
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
ALL OTHER STATEMENT TYPES ARE NOT CHANGED. IN PARTICULAR ALL I/O	Relabel
STATEMENTS AND ASSOCIATED FORMAT STATEMENTS ARE NOT CONVERTED.	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
THE FORTRAN STATEMENTS DESCRIBED ABOVE AND TREATED BY THIS PROGRAM	Relabel
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
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO ERROR IN PROGRAMS	Relabel
	Relabel

OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINES FILIO1 AND FILIO2)			Relabel
-----			Relabel
UNIT	FILE NAME	DESCRIPTION	Relabel
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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
INPUT CARDS			Relabel
-----			Relabel
LINE	COLUMNS	DEFINITION	Relabel
----	-----	-----	Relabel
1	1-60	INPUT PROGRAM FILENAME	Relabel
		(STANDARD OPTION = RELABEL.IN)	Relabel
2	1-60	OUTPUT PROGRAM FILENAME	Relabel
		(STANDARD OPTION = RELABEL.OUT)	Relabel
LEAVE THE DEFINITION OF THE FILENAMES BLANK - THE PROGRAM WILL			Relabel
THEN USE STANDARD FILENAMES.			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
\PREPRO94\RECENT\RECENT.FOR			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.IN			Relabel
RELABEL.OUT			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
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