

	=====	RELABEL
PROGRAM RELABEL		RELABEL
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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	RELABEL
	(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
VERS. 2007-1 (DEC. 2007) *72 CHARACTER FILE NAMES.		RELABEL
VERS. 2010-1 (Apr. 2010) *General update based on user feedback		RELABEL
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

VERS. 2020-1 (Feb. 2020)	*Identical to 2018-1	RELABEL
VERS. 2021-1 (Jan. 2021)	*Update fot FORTRAN 2018	RELABEL
VERS. 2023-1 (Feb. 2023)	*Identical to 2021-1	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
PRESENT CONTACT INFORMATION		RELABEL
-----		RELABEL
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PURPOSE		RELABEL
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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
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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
OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINES FILIO1 AND FILIO2)		RELABEL
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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
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LINE	COLUMNS	DEFINITION	RELABEL
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1	1-72	INPUT PROGRAM FILENAME (STANDARD OPTION = RELABEL.IN)	RELABEL
2	1-72	OUTPUT PROGRAM FILENAME (STANDARD OPTION = RELABEL.OUT)	RELABEL
LEAVE THE DEFINITION OF THE FILENAMES BLANK - THE PROGRAM WILL THEN USE STANDARD FILENAMES.			RELABEL
EXAMPLE INPUT NO. 1			RELABEL
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TO READ \PREPRO94\RECENT\RECENT.FOR AND WRITE \PREPRO94\RECENT\RECENT.NEW THE FOLLOWING 2 INPUT LINES ARE REQUIRED,			RELABEL
\PREPRO94\RECENT\RECENT.FOR			RELABEL
EXAMPLE INPUT NO. 2			RELABEL
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TO READ RELABEL.IN AND WRITE RELABEL.OUT THE FOLOWING 2 INPUT LINES ARE REQUIRED,			RELABEL
RELABEL.IN			RELABEL
RELABEL.OUT			RELABEL
EXAMPLE INPUT NO. 3			RELABEL
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TO READ RELABEL.IN AND WRITE RELABEL.OUT, SINCE THESE ARE THE STANDARD OPTIONS THE 2 INPUT LINES CAN BE COMPLETELY BLANK.			RELABEL
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