

|                                                                |         |
|----------------------------------------------------------------|---------|
| =====                                                          | Convert |
| PROGRAM CONVERT                                                | Convert |
| VERSION 75-1 (APRIL 1975)                                      | Convert |
| VERSION 78-1 (JANUARY 1978)                                    | Convert |
| VERSION 80-1 (AUGUST 1980) IBM VERSION                         | Convert |
| VERSION 80-2 (DECEMBER 1980)                                   | Convert |
| VERSION 82-1 (JANUARY 1982)                                    | Convert |
| VERSION 83-1 (JANUARY 1983)                                    | Convert |
| VERSION 86-1 (JANUARY 1986)*NEW PROGRAM                        | Convert |
| *FORTRAN-77/H VERSION                                          | Convert |
| *MULTIPLE INPUT OPTIONS                                        | Convert |
| VERSION 88-1 (AUGUST 1988)*OPTION...INTERNALLY DEFINE ALL I/O  | Convert |
| FILE NAMES (SEE, SUBROUTINE FILEIO                             | Convert |
| FOR DETAILS).                                                  | Convert |
| *IMPROVED BASED ON USER COMMENTS.                              | Convert |
| *ADDED NAMES OPTION TO TURN ON/OFF                             | Convert |
| STANDARD FILE NAMES.                                           | Convert |
| *ADDED REWIND OPTION TO TURN ON/OFF                            | Convert |
| REWIND AT START OF PROGRAMS.                                   | Convert |
| *DELETED HARWELL AND JAERI OPTIONS                             | Convert |
| (PREVIOUSLY ONLY REQUIRED FOR GRAPHIC                          | Convert |
| INTERFACE. NO LONGER REQUIRED).                                | Convert |
| VERSION 89-1 (JANUARY 1989)*PSYCHOANALYZED BY PROGRAM FREUD TO | Convert |
| INSURE PROGRAM WILL NOT DO ANYTHING                            | Convert |
| CRAZY.                                                         | Convert |
| *IMPROVED BASED ON USER COMMENTS.                              | Convert |
| *ADDED LIVERMORE CIVIC COMPILER                                | Convert |
| CONVENTIONS.                                                   | Convert |
| *UPDATED TO USE NEW PROGRAM CONVERT                            | Convert |
| KEYWORDS.                                                      | Convert |
| *ADDED ENDFILE OPTION TO OPTIONALLY                            | Convert |
| ALLOW END OF FILE TO BE WRITTEN                                | Convert |
| VERSION 91-1 (JUNE 1991)*ADDED FORTRAN SAVE OPTION             | Convert |
| VERSION 92-1 (JANUARY 1992)*ADDED ACTION OPTION - TO CONTROL   | Convert |
| INTERACTIVE INPUT TO CODES                                     | Convert |
| *ADDED BLANK DELIMITED KEYWORD INPUT                           | Convert |
| (REPLACES EARLIER FIXED FIELD INPUT)                           | Convert |
| *WARNING...THE INPUT PARAMETER FORMAT                          | Convert |
| HAS BEEN GENERALIZED - FOR DETAILS                             | Convert |
| SEE BELOW.                                                     | Convert |
| VERSION 94-1 (JANUARY 1994)*VARIABLE PROGRAM FILENAMES         | Convert |
| TO ALLOW ACCESS TO FILE STRUCTURES                             | Convert |
| (WARNING - INPUT PARAMETER FORMAT                              | Convert |
| HAS BEEN CHANGED)                                              | Convert |
| *CLOSE ALL FILES BEFORE TERMINATING                            | Convert |
| (SEE, SUBROUTINE ENDIT)                                        | Convert |
| *ADDED KEYWORD CLOSE.                                          | Convert |
| VERSION 96-1 (JANUARY 1996)*COMPLETE RE-WRITE                  | Convert |
| *IMPROVED COMPUTER INDEPENDENCE                                | Convert |
| *ALL DOUBLE PRECISION                                          | Convert |
| *ON SCREEN OUTPUT                                              | Convert |
| VERSION 99-1 (MARCH 1999)*GENERAL IMPROVEMENTS BASED ON        | Convert |
| USER FEEDBACK                                                  | Convert |
| VERS. 2000-1 (FEBRUARY 2000)*GENERAL IMPROVEMENTS BASED ON     | Convert |
| USER FEEDBACK                                                  | Convert |
| VERS. 2002-1 (MAY 2002)*OPTIONAL INPUT PARAMETERS              | Convert |
| VERS. 2004-1 (MARCH 2004)*GENERAL UPDATE                       | Convert |
| VERS. 2007-1 (JAN. 2007)*GENERAL UPDATE                        | Convert |
|                                                                | Convert |
| OWNED, MAINTAINED AND DISTRIBUTED BY                           | Convert |
| -----                                                          | Convert |
| THE NUCLEAR DATA SECTION                                       | Convert |

|                                                                    |         |
|--------------------------------------------------------------------|---------|
| INTERNATIONAL ATOMIC ENERGY AGENCY                                 | Convert |
| P.O. BOX 100                                                       | Convert |
| A-1400, VIENNA, AUSTRIA                                            | Convert |
| EUROPE                                                             | Convert |
| ORIGINALLY WRITTEN BY                                              | Convert |
| -----                                                              | Convert |
| DERMOTT E. CULLEN                                                  | Convert |
| UNIVERSITY OF CALIFORNIA                                           | Convert |
| LAWRENCE LIVERMORE NATIONAL LABORATORY                             | Convert |
| L-159                                                              | Convert |
| P.O. BOX 808                                                       | Convert |
| LIVERMORE, CA 94550                                                | Convert |
| U.S.A.                                                             | Convert |
| TELEPHONE 925-423-7359                                             | Convert |
| E. MAIL CULLEN1@LLNL.GOV                                           | Convert |
| WEBSITE HTTP://WWW.LLNL.GOV/CULLEN1                                | Convert |
| AUTHORS MESSAGE                                                    | Convert |
| -----                                                              | Convert |
| THE COMMENTS BELOW SHOULD BE CONSIDERED THE LATEST DOCUMENTATION   | Convert |
| FOR THIS PROGRAM INCLUDING ALL RECENT IMPROVEMENTS. PLEASE READ    | Convert |
| ALL OF THESE COMMENTS BEFORE IMPLEMENTATION, PARTICULARLY THE      | Convert |
| COMMENTS CONCERNING COMPUTER DEPENDENT CODING.                     | Convert |
| AT THE PRESENT TIME WE ARE ATTEMPTING TO DEVELOP A SET OF COMPUTER | Convert |
| INDEPENDENT PROGRAMS THAT CAN EASILY BE IMPLEMENTED ON ANY ONE     | Convert |
| OF A WIDE VARIETY OF COMPUTERS. IN ORDER TO ASSIST IN THIS PROJECT | Convert |
| IT WOULD BE APPRECIATED IF YOU WOULD NOTIFY THE AUTHOR OF ANY      | Convert |
| COMPILER DIAGNOSTICS, OPERATING PROBLEMS OR SUGGESTIONS ON HOW TO  | Convert |
| IMPROVE THIS PROGRAM. IN PARTICULAR IF YOUR FORTRAN COMPILER, OR   | Convert |
| COMPUTER HAS A SET OF REQUIREMENTS THAT ARE DIFFERENT FROM THOSE   | Convert |
| OF CDC, CRAY OR IBM PLEASE NOTIFY THE AUTHOR AND THIS PROGRAM WILL | Convert |
| BE MODIFIED TO CONSIDER YOUR COMPUTER SEPERATELY. HOWEVER, IN      | Convert |
| ORDER TO PREVENT A PROLIFERATION OF CODING IT IS IMPERATIVE THAT   | Convert |
| YOU IDENTIFY EXACTLY HOW YOUR FORTRAN COMPILER OR COMPUTER DIFFERS | Convert |
| FROM THOSE ALREADY CONSIDERED BY THIS PROGRAM. HOPEFULLY, IN THIS  | Convert |
| WAY FUTURE VERSIONS OF THIS PROGRAM WILL BE COMPLETELY COMPATIBLE  | Convert |
| FOR USE ON YOUR COMPUTER.                                          | Convert |
| PURPOSE                                                            | Convert |
| -----                                                              | Convert |
| THIS PROGRAM IS DESIGNED TO AUTOMATICALLY CONVERT FORTRAN PROGRAMS | Convert |
| FOR USE ON ANY ONE OF A VARIETY OF,                                | Convert |
| (1) COMPUTERS                                                      | Convert |
| (2) COMPILERS                                                      | Convert |
| (3) PRECISIONS (SINGLE OR DOUBLE PRECISION)                        | Convert |
| (4) INSTALLATIONS                                                  | Convert |
| (5) STANDARD OR NON-STANDARD FILE NAMES                            | Convert |
| FORTRAN CODING CONVENTIONS                                         | Convert |
| -----                                                              | Convert |
| THIS PROGRAM MAY BE USED TO CONVERT ANY PROGRAM WHICH USES THE     | Convert |
| FOLLOWING CONVENTIONS.                                             | Convert |
| ALL FORTRAN STATEMENTS THAT DEPEND ON ANY COMBINATION OF COMPUTER, | Convert |
| COMPILER, PRECISION AND/OR INSTALLATION AND STANDARD FILE NAMES    | Convert |
| SHOULD BE PRECEDED AND FOLLOWED BY A COMMENT LINE THAT CONTAINS,   | Convert |
| C***** DOUBLE ***** ACTIVATE DOUBLE PRECISION (DEFAULT)            | Convert |
| C***** SINGLE ***** ACTIVATE SINGLE PRECISION                      | Convert |
| C***** CHARACTER *** TREAT CHARACTER ARRAYS AS CHARACTERS(DEFAULT) | Convert |
| C***** INTEGER ***** TREAT CHARACTER ARRAYS AS INTEGERS            | Convert |

|                      |                                               |         |
|----------------------|-----------------------------------------------|---------|
| C***** STOP *****    | ACTIVATE STOP TO TERMINATE PROGRAM            | Convert |
| C***** EXIT *****    | ACTIVATE EXIT TO TERMINATE PROGRAM            | Convert |
| C***** PROGRAM ***** | ACTIVATE PROGRAM LINE AND CONTINUATIONS       | Convert |
| C***** NAMES *****   | ACTIVATE STANDARD FILENAMES                   | Convert |
| C***** REWIND *****  | ACTIVATE REWIND FILES AT START OF PROGRAM     | Convert |
| C***** ENDFILE ***** | ACTIVATE ENDFILE AT END OF PROGRAM            | Convert |
| C***** CIVIC *****   | ACTIVATE LIVERMORE CIVIC COMPILER CONVENTIONS | Convert |
| C***** NOID *****    | REMOVE LINE ID IN COLUMNS 73-80 (73-80=BLANK) | Convert |
| C***** SAVE *****    | SAVE VARIABLES BETWEEN SUBROUTINE CALLS       | Convert |
| C***** ACTION *****  | ACTIVATE INTERACTIVE INPUT TO CODES           | Convert |
| C***** CLOSE *****   | ACTIVATE CLOSE ALL FILES BEFORE TERMINATING   | Convert |

|                              |                                       |         |
|------------------------------|---------------------------------------|---------|
| IF THE USER DOES NOT SELECT, |                                       | Convert |
| (1) DOUBLE OR SINGLE         | - THE PROGRAM WILL ACTIVATE DOUBLE    | Convert |
| (2) CHARACTER OR INTEGER     | - THE PROGRAM WILL ACTIVATE CHARACTER | Convert |
| (3) STOP OR EXIT             | - THE PROGRAM WILL ACTIVATE STOP      | Convert |

|                           |                                       |         |
|---------------------------|---------------------------------------|---------|
| IF THE USER SELECTS,      |                                       | Convert |
| (1) DOUBLE AND SINGLE     | - THE PROGRAM WILL ACTIVATE DOUBLE    | Convert |
| (2) CHARACTER AND INTEGER | - THE PROGRAM WILL ACTIVATE CHARACTER | Convert |
| (3) STOP AND EXIT         | - THE PROGRAM WILL ACTIVATE STOP      | Convert |

|                                                                                                                            |         |
|----------------------------------------------------------------------------------------------------------------------------|---------|
| IF THE USER DOES NOT SELECT PROGRAM, NAMES, REWIND, ENDFILE, CIVIC, NOID, SAVE OR ACTION THESE OPTIONS WILL BE TURNED OFF. | Convert |
|----------------------------------------------------------------------------------------------------------------------------|---------|

|                                                                                                                                                                                                                                                                                                                                    |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WHERE CODING IS COMPUTER OR COMPILER DEPENDENT CODING WILL BE PRESENT FOR ALL POSSIBLE OPTIONS. THIS PROGRAM WILL ALLOW THE THE USER TO CONVERT PROGRAMS FOR USE WITH ANY COMBINATION OF OPTIONS. FOR EXAMPLES OF HOW THIS CONVENTION IS USED SEE THE LISTING OF THIS PROGRAM AND THE COMMENTS BELOW ON COMPUTER DEPENDENT CODING. | Convert |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

|             |         |
|-------------|---------|
| INPUT LINES | Convert |
|-------------|---------|

|       |       |                               |
|-------|-------|-------------------------------|
| ----- |       | Convert                       |
| LINE  | COLS. | DESCRIPTION                   |
| ----  | ----- | -----                         |
| 1     | 1-72  | BLANK DELIMITED KEYWORDS      |
| 2     | 1-60  | ENDF/B INPUT DATA FILENAME    |
|       |       | (STANDARD OPTION = ENDFB.IN)  |
| 3     | 1-60  | ENDF/B OUTPUT DATA FILENAME   |
|       |       | (STANDARD OPTION = ENDFB.OUT) |

|                                                                                                                                                                                                        |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| *THE FIRST INPUT LINE IS 72 CHARACTERS.                                                                                                                                                                | Convert |
| *KEYWORDS MAY BE LOCATED ANYWHERE WITHIN THESE 72 CHARACTERS                                                                                                                                           | Convert |
| *THERE MAY BE ANY NUMBER OF KEYWORDS INPUT                                                                                                                                                             | Convert |
| *EACH KEYWORD MUST BE BLANK DELIMITED, E.G., DOUBLE CHARACTER IS LEGAL INPUT - DOUBLECHARACTER IS NOT LEGAL INPUT.                                                                                     | Convert |
| *THERE MUST BE ONE OR MORE BLANKS BETWEEN KEYWORDS                                                                                                                                                     | Convert |
| *NOTE, THIS NEW INPUT PARAMETER FORMAT (VERSION 92-1) IS COMPLETELY COMPATIBLE WITH THE OLDER FIXED FIELD FORMAT. SO THAT IF YOU HAVE INPUT THAT YOU HAVE USED IN THE PAST YOU CAN CONTINUE TO USE IT. | Convert |

|                         |         |
|-------------------------|---------|
| LEGAL KEYWORDS INCLUDE, | Convert |
|-------------------------|---------|

|           |                                               |         |
|-----------|-----------------------------------------------|---------|
| DOUBLE    | ACTIVATE DOUBLE PRECISION (DEFAULT)           | Convert |
| SINGLE    | ACTIVATE SINGLE PRECISION                     | Convert |
| CHARACTER | TREAT CHARACTER ARRAYS AS CHARACTERS(DEFAULT) | Convert |
| INTEGER   | TREAT CHARACTER ARRAYS AS INTEGERS            | Convert |
| PROGRAM   | ACTIVATE PROGRAM LINE AND CONTINUATIONS       | Convert |
| NAMES     | ACTIVATE STANDARD FILENAMES                   | Convert |
| REWIND    | ACTIVATE REWIND FILES AT START OF PROGRAM     | Convert |
| ENDFILE   | ACTIVATE ENDFILE AT END OF PROGRAM            | Convert |

|                                                                    |                                               |         |
|--------------------------------------------------------------------|-----------------------------------------------|---------|
| CIVIC                                                              | ACTIVATE LIVERMORE CIVIC COMPILER CONVENTIONS | Convert |
| NOID                                                               | REMOVE LINE ID IN COLUMNS 73-80 (73-80=BLANK) | Convert |
| SAVE                                                               | SAVE VARIABLES BETWEEN SUBROUTINE CALLS       | Convert |
| ACTION                                                             | ACTIVATE INTERACTIVE INPUT FOR CODES          | Convert |
| CLOSE                                                              | ACTIVATE CLOSE ALL FILES BEFORE TERMINATING   | Convert |
| EXAMPLE INPUT NO. 1                                                |                                               | Convert |
| -----                                                              |                                               | Convert |
| TO USE A PROGRAM IN SINGLE PRECISION, USE THE STANDARD FILE NAMES, |                                               | Convert |
| REWIND ALL UNITS AT THE START OF THE PROGRAM AND TREAT CHARACTER   |                                               | Convert |
| ARRAYS AS CHARACTER (FORTRAN-77 CONVENTION).                       |                                               | Convert |
| READ \PREPRO93\RECENT\RECENT.OLD AND                               |                                               | Convert |
| WRITE \PREPRO93\RECENT\RECENT.NEW                                  |                                               | Convert |
| THE FOLLOWING 3 INPUT LINES ARE REQUIRED,                          |                                               | Convert |
| SINGLE NAMES REWIND CHARACTER                                      |                                               | Convert |
| \PREPRO93\RECENT\RECENT.OLD                                        |                                               | Convert |
| \PREPRO93\RECENT\RECENT.NEW                                        |                                               | Convert |
| NOTE, SINCE CHARACTER IS THE STANDARD OPTION THE KEYWORD CHARACTER |                                               | Convert |
| NEED NOT APPEAR ON THE ABOVE INPUT LINE.                           |                                               | Convert |
| EXAMPLE INPUT NO. 2                                                |                                               | Convert |
| -----                                                              |                                               | Convert |
| TO USE A PROGRAM IN DOUBLE PRECISION AND TREAT ALL CHARACTER       |                                               | Convert |
| ARRAYS AS INTEGER (FORTRAN-H CONVENTION).                          |                                               | Convert |
| USE THE STANDARD FILENAMES TO READ = CONVERT.IN AND WRITE =        |                                               | Convert |
| CONVERT.OUT (THIS CAN BE DONE BY LEAVING THE SECOND AND THIRD      |                                               | Convert |
| INPUT LINES BLANK).                                                |                                               | Convert |
| THE FOLLOWING 3 INPUT LINES ARE REQUIRED,                          |                                               | Convert |
| DOUBLE INTEGER                                                     |                                               | Convert |
| (NOTE, THIS IS A BLANK LINE)                                       |                                               | Convert |
| (NOTE, THIS IS A BLANK LINE)                                       |                                               | Convert |
| NOTE, SINCE DOUBLE IS THE STANDARD OPTION THE KEYWORD DOUBLE       |                                               | Convert |
| NEED NOT APPEAR ON THE ABOVE INPUT LINE.                           |                                               | Convert |
| EXAMPLE INPUT NO. 3                                                |                                               | Convert |
| -----                                                              |                                               | Convert |
| TO ACTIVATE THE PROGRAM LINE, USE DOUBLE PRECISION AND TREAT ALL   |                                               | Convert |
| CHARACTER ARRAYS AS CHARACTER.                                     |                                               | Convert |
| READ \PREPRO93\RECENT\RECENT.OLD AND                               |                                               | Convert |
| WRITE THE STANDARD FILENAME = CONVERT.OUT (LEAVE THE THIRD INPUT   |                                               | Convert |
| LINE BLANK).                                                       |                                               | Convert |
| THE FOLLOWING 3 INPUT LINES ARE REQUIRED,                          |                                               | Convert |
| PROGRAM                                                            |                                               | Convert |
| \PREPRO93\RECENT\RECENT.OLD                                        |                                               | Convert |
| (NOTE, THIS IS A BLANK LINE)                                       |                                               | Convert |
| NOTE, SINCE DOUBLE, CHARACTER AND EXIT ARE THE STANDARD OPTIONS    |                                               | Convert |
| THEY NEED NOT APPEAR ON THE ABOVE INPUT LINE AND IN THIS EXAMPLE   |                                               | Convert |
| HAVE BEEN OMITTED.                                                 |                                               | Convert |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Convert |
| -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Convert |
| (1) THE PROGRAM WILL ALWAYS ACTIVATE DOUBLE OR SINGLE, CHARACTER OR INTEGER (AS DESCRIBED ABOVE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| (2) CODING IN THE PROGRAM FOR ANY KEYWORDS THAT ARE NOT ACTIVATED WILL BE CONVERTED TO COMMENT LINES AND AS SUCH WILL EFFECTIVELY DISAPPEAR FROM THE PROGRAM. THEREFORE IF THE KEYWORDS PROGRAM, NAMES, REWIND, ENDFILE, CIVIC OR NOID ARE NOT INPUT BY THE USER THESE OPTIONS WILL BE TURNED OFF AND ANY CODING USING THESE KEYWORDS WILL EFFECTIVELY DISAPPEAR FROM THE PROGRAM.                                                                                                                                                                                                                                                    | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| (3) THE SERIES OF CODES THAT ARE DESIGNED TO BE AUTOMATICALLY TRANSLATED BY THIS PROGRAM REQUIRE THAT ALL CALCULATIONS BE PERFORMED IN DOUBLE PRECISION ON SHORT WORD LENGTH COMPUTERS (E.G., IBM COMPUTERS). THIS PROGRAM WILL ALLOW YOU TO SPECIFY EITHER DOUBLE OR SINGLE PRECISION. HOWEVER, IF YOU SPECIFY SINGLE PRECISION THIS PROGRAM WILL PRINT A WARNING MESSAGE THAT THE CONVERTED PROGRAM SHOULD ONLY BE USED ON LONG WORD LENGTH COMPUTERS (E.G., CDC COMPUTERS).                                                                                                                                                        | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| PROGRAM OPERATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Convert |
| -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Convert |
| THE PROGRAM WILL SEARCH FOR COMMENT LINES THAT START WITH C** IN COLUMNS 1-3 FOLLOWED BY ANY ONE OF THE ALLOWED KEYWORDS IF THE KEYWORD IS THE SAME AS ONE OF THE KEYWORDS INPUT BY THE USER ALL LINES UP TO THE NEXT LINE WITH C** IN COLUMNS 1-3 FOLLOWED BY THE SAME KEYWORD WILL BE SET ACTIVE BY SETTING COLUMN 1 TO BLANK. IF THE KEYWORDS DIFFERS FROM THAT INPUT BY THE USER ALL LINES UP TO THE NEXT LINE WITH C** IN COLUMNS 1-3 FOLLOWED BY THE SAME KEYWORD WILL BE SET INACTIVE BY SETTING COLUMN 1 TO C.                                                                                                                | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| KEYWORDS MAY NOT BE NESTED (I.E., THIS PROGRAM WILL ONLY OPERATE PROPERLY IF KEYWORDS APPEAR IN PAIRS. ONCE A LINE IS FOUND THAT CONTAINS A KEYWORD, THE NEXT LINE THAT CONTAINS A KEYWORD MUST CONTAIN THE SAME KEYWORD).                                                                                                                                                                                                                                                                                                                                                                                                            | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| PROGRAM LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Convert |
| -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Convert |
| THE FORTRAN FILE MAY START WITH A PROGRAM LINE AND CONTINUATIONS. FOR USE ON CDC-7600 OR CRAY-1 COMPUTERS THIS PROGRAM CAN ACTIVATE THE PROGRAM LINE AND CONTINUATION LINES. FOR USE ON OTHER TYPES OF COMPUTERS THIS PROGRAM WILL AUTOMATICALLY DE-ACTIVATE THE PROGRAM LINE AND CONTINUATION LINES. THIS CONVENTIONS HAS BEEN INTRODUCED BECAUSE SOME CDC-7600 COMPILERS CONSIDER IT AN ERROR IF THE FIRST LINE IS NOT A PROGRAM LINE. PRECEEDING COMMENT LINES ARE NOT ALLOWED. THEREFORE THE NORMAL CONVENTION, DESCRIBED ABOVE, OF USING PRECEEDING AND FOLLOWING COMMENT LINES, CANNOT BE USED AT THE BEGINNING OF THE PROGRAM. | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| COMMENT LINES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Convert |
| -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Convert |
| COMMENT LINES MAY APPEAR ON LINES BETWEEN PAIRS OF KEYWORD LINES ONLY IF THE COMMENT LINES CONTAINS C-- IN COLUMNS 1-3. ANY LINE THAT CONTAINS ANYTHING ELSE IN COLUMNS 1-3 MAY BE ACTIVATED BY THIS PROGRAM BY SETTING COLUMN 1 BLANK AND CAN LEAD TO ERRORS DURING COMPILATION AND/OR EXECUTION.                                                                                                                                                                                                                                                                                                                                    | Convert |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Convert |
| INPUT FILES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Convert |
| -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Convert |
| UNIT DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Convert |
| ----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Convert |
| 2 INPUT LINE (BCD - 80 CHARACTERS/RECORD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Convert |

|                                                                 |                                                   |         |
|-----------------------------------------------------------------|---------------------------------------------------|---------|
| 10                                                              | ORIGINAL PROGRAM (BCD - 80 CHARACTERS/RECORD)     | Convert |
|                                                                 |                                                   | Convert |
| OUTPUT FILES                                                    |                                                   | Convert |
| -----                                                           |                                                   | Convert |
| UNIT                                                            | DESCRIPTION                                       | Convert |
| ----                                                            | -----                                             | Convert |
| 3                                                               | OUTPUT REPORT (BCD - 120 CHARACTERS/RECORD)       | Convert |
| 11                                                              | RE-FORMATTED PROGRAM (BCD - 80 CHARACTERS/RECORD) | Convert |
|                                                                 |                                                   | Convert |
| OPTIONAL STANDARD FILE NAMES (SEE SUBROUTINE FILIO1 AND FILIO2) |                                                   | Convert |
| -----                                                           |                                                   | Convert |
| UNIT                                                            | FILE NAME                                         | Convert |
| ----                                                            | -----                                             | Convert |
| 2                                                               | CONVERT.INP                                       | Convert |
| 3                                                               | CONVERT.LST                                       | Convert |
| 10                                                              | CONVERT.IN                                        | Convert |
| 11                                                              | CONVERT.OUT                                       | Convert |
| =====                                                           |                                                   | Convert |