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C A R N E G I E - M E I L L O N U N I V E R S I T Y
D E P A R T M E N T O F C O M P U T E R S C I E N C E

L C C
E R R O R M E S S A G E S

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This manual is designed to be a reference manual for both the LCC user and the LCC maintainer. As such, both user errors and system errors are listed and explained. Therefore, some of the explanations are probably useless to the average user, but are included for completeness.

Error messages are arranged alphabetically by the first two characters of the error code; within each classification messages are arranged in ascending order of the last two digits. Errors which are of a serious nature and indicate a possible error within the system are flagged by three exclamation points (!!!) left of the message text.

Each error message is divided as follows:

MMnn TEXT OF MESSAGE \$.

CAUSE: An explanation of the cause of the message.

SYSTEM ACTION: How the system responds to the error.

RECOVER OPTIONS: What forms of the "RECOVER" statement, if any, which may be used.

ISSUED BY: The name of the module and routine as MODULE (ROUTINE)

NOTES: Indications of further information.

The dollar signs in the text portion indicate variable information which is not available until execution time.

The cause indicates a further explanation of the original message.

The "System Action" indicates how the system reacts to the error. There are four possible actions for each error:

- 1) The error may be ignored, and processing continues.
- 2) The user may be given control. This is effected by calling PART C; the context of PART C is the same as the context of the current part. If the current part is PART C, the statement is discarded and must be re-entered.
- 3) The system may perform an "EXIT ALL", removing all context and cleaning up all data structures. This action is referred to as the "Standard system-error recovery".

- 4) The system may perform a "DELETE ALL", removing all of LCC and reloading it. This occurs under two conditions, either as explicitly mentioned (as for program interrupts) or implicitly if while performing the "EXIT ALL" a second system error is detected.

The "Recover Options" indicate which if any of the variations of the "RECOVER" statement are allowed, and the effect of each.

The issuing module is given in the event an error is suspect and the code must be checked to insure its correctness. Both the module name (Source deck) and the routine name are given.

Recovery from errors is partially by means of the "RECOVER" statement. Errors can occur during execution of either immediate or delayed steps. If the error occurs during the execution of an immediate step, and is of the nature that it is supposed to return control to the user, the immediate step is discarded and the next step is requested. If the error occurs during the execution of a delayed step, PAFT 0 is called recursively by the error handler (the indentation is changed to indicate the depth of recursion). At this point the user has control and can perform any number of actions, including calling other parts, calling the same part recursively, and/or displaying, altering, or creating new sections of the program and/or data. The user may then choose to resume processing at some lower level of nesting, or resume processing at the previous level by use of "RECOVER".

The basic recovery options, common to all normal errors, are:

EXIT---takes the user to an outer dynamic context and gives him control. Options on EXIT may select the previous context, the innermost occurrence of a previous part, or the global context.

GOTO---takes the user out of the current user state and into a context defined by the operand of the GOTO, and gives control to the program.

In addition, for some errors the operation can be retried, using either a system default action or data supplied by the user. This is done by the third option,

RECOVER---has four options, as below:

- 1) "RECOVER" --- a system default action is taken.
- 2) "RECOVER <value>" --- an arbitrary expression is evaluated, and the value is used in a default action.

3) Both of the above options, indicating two different system default actions on recovery.

4) Neither of the above options, indicating only EXIT or GOTO can be used.

In the case of major system errors (referred to as "severity 2 errors"), two actions are taken depending on the privileges of the user. For normal users, an "EXIT ALL" is performed, and the entire context below the global level is lost. No program text is lost, the same as a normal "EXIT ALL". For those with implementor privileges, the error message is issued, and control is given to TSS in the context of the module issuing the error message. "GC" may or may not result in successful recovery.

In the case of catastrophic system errors (referred to as "severity 3 errors") a "DELETE ALL" is performed for normal users, and all data except that on external storage (including the automatic reload file) is lost. For implementors the action is the same as for severity 2 errors, except program interrupts 1-7 which are trapped instantly by TSS.

When a program interrupt terminates execution for a user, a dump file of information such as the general registers, the recursion stack, the run-time-stack, and the VPSW is written, and a print task is queued up to print it out. Please take all such printout to the LCC group.

Syntax errors are issued by the translator, and take the form:

```
ERRCR SXnn †
```

where the flag (†) indicates the probable position of the error. The most common causes are listed, but these listings are in no way exhaustive of all possibilities. A syntax error early in a statement may not be detected until, for example, the first semicolon.

For syntax errors in statements entered from the terminal, the error message is printed directly underneath. For syntax errors in statements passed explicitly or implicitly to the translator the incorrect line is typed out, preceded by an asterisk (*) and the error line is typed underneath. The system action taken as a result of the error depends upon which function called the translator, e.g., the loader continues processing, while the string-to-value routine generates a run-time error.

A syntax error on an immediate step causes the step to be discarded; a syntax error on a delayed step causes the statement to be stored away (as normal) with a flag which causes a run-time error if it is executed.

A100 ALTER FOUND INVALID: \$

CAUSE: The translator found an error while translating string \$.

SYSTEM ACTION: Processing continues. The step in error replaces the original step, if any.

RECOVER OPTIONS: Not applicable.

ISSUED BY: ALTER (WXALTER)

AP00 MISSING ACTUAL PARAMETER

CAUSE: A procedure or function is missing a required parameter.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' causes the specified value to be used as the missing actual parameter.

ISSUED BY: PROCS (WTFPAM)

AP01 This error code is not assigned.

AP02 USER ROUTINE RETURNED ERROR INDICATOR: 1.

CAUSE: A procedure declared by the use of the 'EXTERNAL' procedure has returned a non-zero return code.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER<value>' will cause the specified value to be used as the value of the function. The statement 'RECOVER' will return control to the point where the procedure was called.

ISSUED BY: PROCS (WXCALI)

AP03 1 DID NOT RETURN A VALUE.

CAUSE: The function named did not return a value, as required.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the function.

ISSUED BY: PROCS (WXCALI)

B033 PRINT ACCEPTED AND ASSIGNED BSN 1.

CAUSE: This is merely a confirmation message from TSS indicating that the PRINT request on a file has been accepted. The BSN (Batch Sequence Number) indicates which internal control number the print task will be known by. This number is printed on each output, and can be used to relate listings to terminal sessions, or to locate lost output.

SYSTEM ACTION: Processing continues.

RECOVER OPTIONS: Not applicable.

ISSUED BY: TSS.

BX01 BLOCK EXPRESSION FAILED TO RETURN A VALUE.

CAUSE: The block expression just executed terminated by executing its "END" statement or by executing a "RETURN" statement without a value. A block expression must return a value in order to be meaningful.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement "RECOVER <value>" will cause the specified value to be used as the result of the block expression, i.e., as if it had terminated with a "RETURN <value>" statement.

ISSUED BY: BLOCKS (BICCKME)

CE01 CASE EXPRESSION VALUE CUT OF RANGE.

CAUSE: The index of the case statement is cut of range. An index is considered to be out of range if it is less than 1 or greater than the total number of statements specified for execution, and an "OTHERWISE" clause has not been included.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: KASE (XCASE)

CM01 COMPCUND EXPRESSIGN FAILED TO RETURN A VALUE.

CAUSE: The compound expression just executed terminated by running into its closing brace or by executing a "RETURN" statement without a value. A compound expression must return a value in order to be meaningful.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement "RECOVER <value>" will cause the value specified to be used as the result of the compound expression, i.e., as if it had terminated with a "RETURN <value>" statement.

ISSUED BY: BLOCKS (BLCKCMP)

DE01 STEP \$ IS ACTIVE AND CANNOT BE CHANGED.

CAUSE: The user has attempted to replace, delete, or alter an active step.

SYSTEM ACTION:

- 1) For an ALTER statement, the step in question will not be altered, and if several steps were being altered the alterations will continue.
- 2) For a DELETE statement, control is given to the user.
- 3) When a replacement step is being typed, the replacement is rejected.

RECOVER OPTIONS:

- 1) For ALTER: Not applicable.
- 2) For DELETE: None.
- 3) For replacement: None.

ISSUED BY: QDEIM ((DELE))

DE02 FILE \$ DOES NOT EXIST, CANNOT BE DELETED.

CAUSE: A request has been made to delete a non-existent file.

SYSTEM ACTION: The user is given control

RECOVER OPTIONS: Either of the two following sequences are equivalent, and result in an attempt to delete the specified file.

'RECOVER <filename>'

'USE <filename>; RECOVER'

ISSUED BY: DELTEF ((FILE))

!!! DE03 DELETE FILE \$ RC=\$, SYSTEM ERROR, FILE NOT DELETED.

CAUSE: A TSS or LCC system error has prevented the deletion of the specified file.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: 'RECOVER' will cause the delete request to be ignored; processing will continue.

NOTES: This is a system error. Please bring it to the attention of the ICC group.

ISSUED BY: DELETE (DEIFILE)

!!! DE04 UNKNOWN DELETE PARAMETER, SYSTEM ERROR

CAUSE: A system error has caused incorrect code to be generated for the DELETE statement.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

NOTES: This is a serious system error. Please bring it to the attention of the ICC group.

ISSUED BY: DELETE (XDELETE)

!!! DE05 ITEM CANNOT BE DELETED. TYPE UNKNOWN.

CAUSE: A system error has caused a request to delete an item whose type cannot be determined.

SYSTEM ACTION: User is given control

RECOVER OPTIONS: None.

NOTES: Please bring this error to the attention of the ICC group.

ISSUED BY: DELETE (XDELETE)

!!! DE06 UNKNOWN TYPE RETURNED TO 'DELETE' BY 'GIMME'

CAUSE: The internal service routine 'GIMME' has returned an item to be deleted, and 'DELETE' cannot recognize it. This is a system error.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

NOTES: Please bring this error to the attention of the ICC group.

ISSUED BY: DELETE (XDELE)

EFOO VALUE NOT FROM A VARIABLE

CAUSE: The LCC function 'EXTERNAL' has been called, and the first argument is not a simple variable.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: INTFUNS (ICEXTERN)

****SYMBOL (\$) TO BE LOCATED NOT FOUND.
EFO1 ↑

CAUSE: The argument passed to the LCC function 'EXTERNAL' has not been found in the user's job library chain, including his USERLIB and SYSLIB. The message is issued by TSS.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: INTFUNS (ICEXTERN)

ER01 ICC CANNOT RETRY THIS OPERATION, USE EXIT OR GOTO.

CAUSE: The user has attempted a "RECOVER" after an error, and neither "RECOVER" nor "RECOVER <value>" are acceptable for that error.

SYSTEM ACTION: The request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QERRM (QEPRCF)

ER02 YOU CANNOT USE 'RECOVER' TO RESTART HERE; USE EXIT OR GOTO.

CAUSE:

SYSTEM ACTION: The request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QERRM (QEPRCF)

ER03 'GO' MAY NOT BE USED TO CONTINUE AFTER AN ERROR.

CAUSE: The user has attempted a 'GO' statement after an error. Since the state of the system is undefined, 'GO' might cause further problems by continuing execution.

SYSTEM ACTION: The request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QERRM (QEPRCF)

!!! ER97 INVALID ERROR MESSAGE GIVEN TO QERROR.

CAUSE: The total number of characters needed to form the error message (the fixed text, plus a maximum of three pieces of variable text) is greater than 131.

SYSTEM ACTION: The standard system-error recovery.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QERRM (QEPRCF)

EV01 ITEM TO BE EVALUATED NOT A SYMBOLIC DESCRIPTOR.

CAUSE: The internal routine EVAL has been called, and the item on top of the stack is neither a value nor a symbol descriptor.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVAL)

EV10 ATTEMPT TO STORE INTO A NON-VARIABLE.

CAUSE: When performing a store operation (destructive or non-destructive) the item on top of the stack indicating where to place the result is not a symbol descriptor.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVAL)

EX01 YOU MAY NOT USE 'GC' TO RECOVER FROM 'EXIT'

CAUSE: After doing an 'EXIT' statement the user attempted to resume execution with a 'GC'.

SYSTEM ACTION: Request is ignored.

RECOVER OPTIONS: Not applicable

ISSUED BY: PARTCALL (PINDPART)

EX02 PART \$ IS NOT ACTIVE, I CANNOT EXIT TO IT.

CAUSE: An 'EXIT TO PART n' statement has been given, and PART n does not exist.

RECOVER OPTIONS: 'RECOVER <part number>' will attempt an exit to that part.

SYSTEM ACTION: User is given control

ISSUED BY: DICTO (XEXIT)

EX03 NO ACTIVE PARTS, YOU MAY NOT EXIT.

CAUSE: The user attempted an 'EXIT' statement from the highest incarnation of PART 0. There is no context to which he can exit.

SYSTEM ACTION: The request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: DICTO (XEXIT)

FD00 LEFT FIELD DESIGNATOR = 0.

CAUSE: The value of the left-end of a field designator is equal to zero. The first character or bit treated is always bit 1.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the value specified to be used as the value of the field designated, i.e., as the result of the field extraction operation.

ISSUED BY: FIELDSD (MWFIDG)

FD01 LEFT FIELD-DESIGNATOR > NUMBER OF ELEMENTS.

CAUSE: The left field-designator on a logic value is greater than 32, or the left field-designator on a string is greater than the length of the string.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the field extraction operation.

ISSUED BY: FIELDSD (MWFIDG)

FD02 RIGHT FIELD-DESIGNATOR = 0.

CAUSE: The right field designator is zero. The first character or bit treated always is position 1.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the field extraction.

ISSUED BY: FIELDSD (MWFIDG)

FD03 RIGHT FIELD-DESIGNATOR > NUMBER OF ELEMENTS.

CAUSE: The right field-designator on a logic value is greater than 32, or the right field designator on a string is greater than the length of the string.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the field extraction.

ISSUED BY: FIELDSDG (WXFIDG)

FD04 LEFT FIELD-DESIGNATOR > RIGHT FIELD-DESIGNATOR.

CAUSE: The value of the left field-designator is greater than the value of the right field-designator.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the field extraction.

ISSUED BY: FIELDSDG (WXFIDG)

FI01 FILE NAME \$ IS ILL-FORMED.

CAUSE: The specified file name contains characters other than the letters A-Z or the digits 0-9. Only upper-case letters are permissible, and the file name must not begin with a digit.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement

`RECOVER <filename>`

will cause the specified file name to be used instead of the incorrect one.

ISSUED BY: USE (XUSE)

FI02 (this error code has not yet been specified)

FI03 (this error code has not yet been specified)

FI04 SCRBY, WE HAVEN'T SPACE FOR FILE \$.

CAUSE: The available disk storage in the system is used up.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

NOTES: This error should be brought to the attention of the TSS System Support Group so that unused files can be deleted from the system. It is recommended at this point that if you have any files which you do not need you should DELETE them. This may free up enough space so that you can perform the filing operation.

ISSUED BY: SETCUTX (SETCUT)

FI05 (This error code has not yet been specified)

FI06 NO OUTPUT FILE SPECIFIED.

CAUSE: The user has attempted a 'SAVE' statement, and has not specified a file to be used. A file may be specified by the 'USE' statement or by having used the file in at least one previous 'SAVE' or 'WRITE' statement. Only the most recently specified file will be used.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: either of the two following sequences are equivalent, and cause the specified file to be used:

'RECOVER <filename>'

'USE <filename>; RECOVER'

ISSUED BY: SETCUTX (SETCUT)

FI07 thru FI08 have not yet been specified.

FI09 LOGCN FILE INVALID FOR FILING OPERATIONS.

CAUSE: You have attempted to use the reserved file name 'LOGCN' for a filing operation. This is the automatic backup file and cannot be used for any other purpose.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: USE (XUSE)

FI10 (This error code has not yet been specified)

FI11 FILE \$ DOES NOT EXIST, CANNOT BE LOADED.

CAUSE: You have requested that a non-existent file be loaded.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: Either of the two following sequences are equivalent, and cause the specified file to be used for the load operation:

'RECOVER <filename>'

'USE <filename>; RECOVER'

ISSUED BY: LOAD (XICAD)

FI13 NULL FILE INVALID FOR OUTPUT.

CAUSE: The user has attempted to use the null file (file
 '') for an output filing operation. This is illegal.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: SETCUTX (SETCUT)

FI14 (This error code has not yet been implemented)

!!! FI15 ICADEF ERROR---\$. FILE \$ NOT LOADED.

CAUSE: A system error has prevented loading of the
 requested file.

SYSTEM ACTION: The request is ignored.

RECOVER OPTIONS: None.

NOTES: This is an error with the LCC system. Please bring
 it to the attention of the ICC group.

ISSUED BY: LCAD (XICAD)

FI16 thru FI17 have not yet been specified.

FI18 ATTENTION KEY WILL BE IGNORED DURING AUTOMATIC RELOAD.

CAUSE: You hit the attention key while an automatic reload
 was being done. For important control reasons, an
 automatic reload must terminate.

SYSTEM ACTION: The attention key will be ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LCAD (XICAD)

FI19 (This error code has not yet been specified)

!!! FI20 CATASTROPHIC SYSTEM ERROR TERMINATED FILE OPERATION.

CAUSE: An unrecoverable file error was detected by the file error handler.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

NOTES: This message usually has the message:

 SYNAD: DDNAME=ddname <control information>

preceding it. This error indicates a serious TSS or LCC system error and should be brought to the attention of the LCC group.

ISSUED BY: FILEDI (FILEDIAG)

FI21 READ ERROR TERMINATED RELOAD; LOAD MAY NOT BE COMPLETE.

CAUSE: An unrecoverable system error was detected by the file error handler during an automatic reload. Since this may be due to the system having crashed, it is not considered as serious as the FI20 error.

SYSTEM ACTION: The reload is terminated.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LOAD (XICAD)

FI22 through FI24 have not yet been specified.

!!! FI25 WRITE SYNAD TERMINATED FILE OPERATION

CAUSE: A system error has caused a file SYNAD error to occur. This message is usually preceded by the message:

 SYNAD: DDNAME=ddname <control information>

which indicates the file control block and cause of the error.

SYSTEM ACTION: The standard system-error recovery is taken.

RECOVER OPTIONS: Not applicable.

ISSUED BY: PUTOUTX (PUTOUT)

NOTES: Please bring this error to the attention of the LCC group.

!!! FI26 CUTEUT FILE NOT OPEN---SYSTEM ERROR.

CAUSE: Somehow the file system has managed to get down to the main file output handler without having successfully opened the file for output. No output operation can be performed.

SYSTEM ACTION: The standard system-error recovery action is taken.

RECOVER OPTIONS: None.

ISSUED BY: PUTOUTX (PUTCUT)

NOTES: Please bring this error to the attention of the LCC group.

FI27 through FI30 have not yet been specified.

FI31 COULD NOT FIND RELCAD FILE, REICAD NOT DONE.

CAUSE: An automatic reload was requested, but the reload file could not be found.

SYSTEM ACTION: The reload request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LOAD (XICAD)

FI32 COULD NOT ACCESS RELCAD FILE, REICAD NOT DONE.

CAUSE: An automatic reload was requested, but an error was detected while trying to initially access the reload file.

SYSTEM ACTION: The reload request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LOAD (XICAD)

GC01 STEP \$ IS UNDEFINED IN A GOTO.

CAUSE: The user has executed a "GO TO n" statement, where n evaluates to a step number. In attempting to go to that step it is found to be undefined.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: CNTFM (STFSEQ)

GC03 STEP \$ NOT IN A ACTIVE CONTEXT.

CAUSE: The user has issued a "GC TO n" statement, where n evaluates to a step number not in the current part. In attempting to go to that step, it is found that the part is not active.

SYSTEM ACTION: The user is given control (in the same context as the GOTO, which was not executed.)

RECOVER OPTIONS: None.

ISSUED BY: CNTFM (XGOTO)

!!! GC04 INVALID BLOCK/COMPOUND LABEL: SYSTEM ERROR.

CAUSE: The label of a GOTO is supposed to be in a block or compound expression or statement which is currently active, and the context of this block or compound statement cannot be found.

SYSTEM ACTION: The standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: CNTFM (XGOTO)

NOTES: This is a serious system error. Please bring it to the attention of the ICC group.

GC10 STEP \$ CHANGED; GO CANNOT BE USED HERE.

CAUSE: Either PAUSE or the ATTN key gave the user control. The statement currently executing at that time has been ALTERED, DELETED, or replaced. "GC" is no longer valid for resuming control.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: LCCM (PARTO)

!!! GO89 STEP TABLE ENTRY MISSING.

CAUSE: The internal routine IJTOAD has been called to locate the subject of an interpretive jump instruction. The instruction is found to point to a non-existent step.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QIJMP (IJTCAD)

GO99 INVALID GOTO \$ HAS TERMINATED EXECUTION.

CAUSE: After deciding that the context of a part exists, and exiting to that context to complete the GOTO, it is discovered that the step specified lies outside the range of valid steps. This might indicate a system error, but on the other hand the following sequence will also produce the error:

5.1, STEPS 6.1 TO 6.3;

6.1, PART 7;

7.1, GOTO 6.5;

PART 5;

In step 7.1, it is discovered that part 6 is active. When the exit to part 6 is performed, it is discovered that 6.5 is in fact outside the range.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: CNTRM (STFSEQ)

!!! IJ99 INVALID SEQUENCE NC. IN AN IJME COMMAND.

CAUSE: The internal routine GOICNJMP has returned an error indication.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QIJME (INTJME)

LB01 LABEL '\$' AT \$ ALREADY DECLARED AT \$.

CAUSE: A label has already been declared in the step given, and appears at the same context level in the specified step. This may be either in the same part, or in a step-group being called from a part, where the label appears in both the part and the step-group, or where a label appears in a compound expression or statement.

SYSTEM ACTION: The user is given control. The part or step-group is not executed.

RECOVER OPTIONS: None.

ISSUED BY: LABELS (MAKLAB)

!!! LB97 RELATIVE LABEL JUMP > 1 PAGE.

CAUSE: The physical separation between two labels in the same step was computed to be > 4096 bytes. Only 12 bits are available to hold the displacement, so this cannot be handled.

SYSTEM ACTION: The standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: LABELS (MAKLAB)

NOTES: Please bring this error to the attention of the ICC group.

!!! LB98 STEPLB: INSTRUCTION NOT INTERP. JUMP.

CAUSE: The instruction passed to 'STEPLB' to be used in computing the location of the next label in the step was not an interpretive jump instruction.

SYSTEM ACTION: The standard system-error recovery action.

RECOVER OPTIONS: None.

ISSUED BY: LABELS (STEPLB)

NOTES: Please bring this error to the attention of the LCC group.

PLEASE BRING ANY "LC" ERROR TO THE ATTENTION OF THE LCC GROUP

!!! LC51 ICCNFCRM: UNKNOWN PAR IN 'TYPE' INSTR.

CAUSE: The parameter in a TYPE instruction is not 0 (normal), 1 (end of list), or 2 (bypass). This is a serious translator error.

SYSTEM ACTION: The standard system-error recovery.

RECOVER OPTIONS: Not applicable.

ISSUED BY: NFORM (ICCNFCRM)

!!! LC52 LINEOUT: SELECTED DEVICE NOT 'D' OR 'T'.

CAUSE: When called to direct an output line to the correct device, 'LINEOUT' found that the device selected was not a disk file ('D') or the terminal ('T').

SYSTEM ACTION: The standard system-error recovery action.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LINEOUTX (LINEOUT)

!!! LC63 PEL: UNKNOWN PAR IN PEL INSTR.

CAUSE: A system error has caused incorrect code to be generated for a program-element descriptor (PEL), which indicates the range of part/step groups, "VALUES", and "ALL".

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: PEL (XPEL)

!!! LC64 XEXIT: UNKNOWN PAR IN EXIT INSTR.

CAUSE: A system error has caused incorrect code to be generated for an EXIT instruction.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: DICTO (XEXIT)

!!! LC65 DICTCAN: MISSED A BLCCK HEADER

CAUSE When cleaning off the stack, the control routine has discovered that it is already below the point where it should have stopped.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: DICTO (DICTCAN)

!!! LC66 CLEANSTK: TRIED TO REMOVE A BLCCKHEADER

CAUSE: When cleaning off the stack, the cleanup routine encountered a block header. Since it cannot clean off a block header (this is the responsibility of the routine which placed it) this is considered a system error.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: DICTO (CLEANSTK)

!!! LC68 OUTPUT ERROR ROUTINE ENTERED DURING FORCED CONVERSION.

CAUSE: A format error was detected during a real-to-string or logic-to-string conversion. This is supposed to be impossible, since it would cause a recursive calling loop, so a system error is issued.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: LCCIC (ERINT)

!!! LC69 LCCIC: 'PROVTYPE' REQUEST UNKNOWN

CAUSE: A request for an item to be converted by the internal subroutine 'PROVILF' is not in the known requests.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: LCCIC (ERINT)

!!! LC70 BUFFER OVERFLOW WHILE IN INHIBIT STATE.

CAUSE: While being used in a real-to-string, logic-to-string, or other formatting application, the output routines detected a buffer overflow, which normally calls for a printout. Since printout is inhibited, a system error occurs.

SYSTEM ACTION: Standard system-error recovery.

ISSUED BY: ICCIC (ERINI)

!!! LC74 CLEANSTK: STACK ALREADY TOO LOW

CAUSE: The routine CLEANSTK has been requested to clean the run-time-stack to a certain point, and the stack is already below that point.

SYSTEM ACTION: Standard system-error recovery.

ISSUED BY: DICTO (CLEANSTK)

!!! LC81 LCC IN A LOOP; WELCOME BACK TO TSS.

CAUSE: Five successive attention interrupts have been detected by ICC without the attention handler being invoked. This is usually due to an internal ICC loop. Following this message the VPSW (indicating the place where the last attention interrupt was detected) and possibly some other information is printed.

SYSTEM ACTION: Control is passed to TSS, or LCC is logged back on.

RECOVER OPTIONS: None.

ISSUED BY: LCCM (SATIN)

NOTES: For authority "U" users, typing 'GC' will cause TSS to return control to LCC. The lccp will continue executing until the next attention interrupt is taken. The LCC command can be re-issued to restore control at the global level. All context except the global context is lost. Data structures, such as large arrays, are not erased although they are lost to knowledge. It is best when re-entering LCC that the state of the world be determined before proceeding.

!!! LC94 PART0: IMMEDIATE STEP HAS BEEN DESTROYED.

CAUSE: When called upon to delete an immediate step, the delete routine has discovered that the step pointed to as being the last immediate step is in fact not. This is a major system error.

SYSTEM ACTION: The standard system-error recovery action.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LCCM (DISTEE)

!!! LC95 PART0: BLOCK HEADERS MISALIGNED.

CAUSE: Before executing each immediate step, the current block header position is saved. Upon return from execution, it is found the block current block header is either above or below the assumed position. This is a system error.

SYSTEM ACTION: The standard system-error recovery.

RECOVER OPTIONS: Not applicable.

ISSUED BY: LCCM (PART0)

LC97 TOO MUCH MEMORY REQUESTED AT ONE TIME.

CAUSE: A storage request has been made for more than 16,777,200 bytes of storage.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QRQM (FREEMEM)

!!! LC98 EFFECT WHILE RELEASING MEMORY TO ISS.

CAUSE: An attempt was made to return some memory to ISS (via FREEMAIN), and the attempt failed.

SYSTEM ACTION: The user is given control. Memory is not released for reallocation.

RECOVER OPTIONS: None.

ISSUED BY: QRQM (FREEMEM)

LC99 MEMORY FULL; USE DELETE TO FREE SPACE.

CAUSE: The attempt to obtain more memory from TSS for user data (via GETMAIN) failed because all available memory has already been allocated.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QRQM (REQMEM)

NOTES: The DELETE statement can be used to free any unused data structures (such as large arrays and strings). This may free up enough memory so that you can proceed.

!!! LC99 LCC RETURN-CODE ABORT. RC=\$.

CAUSE: An undetected return-code has caused an abort to the outermost control module in ICC. At this point all context has disappeared, so the control module simply re-enters ICC. Only program text and global variables remain intact.

SYSTEM ACTION: LCC is re-entered.

RECOVER OPTIONS: None.

ISSUED BY: LCCM (LCC)

MV00 TRANSLATION ERROR \$ IN EXPRESSION: \$.

CAUSE: An implicit call on the translator to convert a string into a value has been made, and the string passed is not syntactically correct.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the translation.

ISSUED BY: MVAL (HTOV)

MV01 STRING EVALUATION FAILED TO RETURN A VALUE.

CAUSE: An implicit call on the translator to convert a string into a value has been made, but no value was returned.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the value specified to be used as the result of the conversion.

ISSUED BY: MVAL (HTOV)

NI01 \$ IS NOT YET IMPLEMENTED.

CAUSE: One of the internal operators (\$) is not yet implemented.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: CNTIM (NCTHEEE)

NOTES: This may or may not be a system error. In any case, please bring it to the attention of the ICC group.

NI02 ROUTINE \$ HAS NOT YET BEEN IMPLEMENTED.

CAUSE: An internal routine (\$) has not yet been implemented.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: Appropriate dummy routine.

NOTES: This is probably not a system error. If you feel that it is please bring it to the attention of the ICC group.

NU01 ATTEMPTING TO OVERFLOW INTO PART \$.

CAUSE: A "NUMBER" or "COPY" statement has attempted to create two parts in one of the following ways:

1) The increment, when added to the last step number given, has caused an overflow into the next part.

2) While COPYING or NUMBERING from two parts, the step numbers of the second part were not strictly greater than those of the first part.

SYSTEM ACTION: The user is given control. The NUMBERED group is not deleted.

RECOVER OPTIONS: None.

ISSUED BY: NUMBER (WXNUM)

NU02 INCREMENT > .9999

CAUSE: The increment specified in a "NUMBER" or "COPY" statement exceeds .9999.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER' will cause the default increment (.01) to be used. The statement 'RECOVER <value>' will cause the value specified to be used as the increment.

ISSUED BY: NUMBER (WXNUM)

NU03 INCREMENT = 0

CAUSE: The increment specified for a "NUMBER" or "COPY" statement is zero.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER' will cause the default increment (.01) to be used. The statement 'RECOVER <value>' will cause the specified value to be used as the increment.

ISSUED BY: NUMBER (WXNUM)

!!! OR00 UNDETERMINED ERROR IN ARITHMETIC ROUTINE

CAUSE: An error has been detected when trying to perform an arithmetic operation, and the cause cannot be determined.

SYSTEM ACTION: The standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: OPERATOR (MWDOPRTN)

NOTES: Please bring this error to the attention of the ICC group.

OR01 DIVISION BY ZERO

CAUSE: The divisor in an arithmetic operation has evaluated to zero.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used for the quotient.

ISSUED BY: OPERATOR (MWDOPRTN)

OR02 MODULO ZERO

CAUSE: An attempt has been made to evaluate an expression modulo zero, which would involve a division by zero.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the modulus.

ISSUED BY: OPERATOR (MWDOPRTN)

!!! OR03 NEGATIVE STRING LENGTH

CAUSE: One of the strings passed to the concatenate routines has a negative length.

SYSTEM ACTION: The standard system-error recovery action is taken.

RECOVER OPTIONS: None.

ISSUED BY: OPERATOR (MWDOPRTN)

NOTES: Please bring this error to the attention of the ICC group.

OR04 EXICMENT CVERFLCW

CAUSE: An arithmetic operation (+, -, *, /, +, *) has produced a result with an exponent greater than $\pm 3F$ (approximately 10^{+75}).

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the operation.

ISSUED BY: OPERATOR (WDCPRIN)

OR05 EXPONENT UNDERFLOW

CAUSE: An arithmetic operation (+, -, *, /, +, *) has produced a result with an exponent less than -40 (approximately 10^{-79}).

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the specified value to be used as the result of the operation.

ISSUED BY: OPERATOR (WDCPRIN)

OR06 This error code is not assigned.

OR07 SHIFT CONSTANT > NUMBER OF ELEMENTS

CAUSE: an attempt has been made to shift a logic value more than 32 bit positions, or to shift a string more character positions than there are characters in the string.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <value>' will cause the value specified to be used as the RESULT of the shift (NOT as a new shift value).

ISSUED BY: OPERATOR (WDCPRIN)

PC01 PART \$ FAILED TO RETURN A VALUE.

CAUSE: The use of 'PART \$' in an expression called a part which failed to return a value. Control either ran off the last statement in the part or a 'RETURN' statement without a value expression was encountered.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement 'RECOVER <expression>' will cause execution to resume. The value of the expression will be used as the value for the part, i.e., this substitutes for the missing 'RETURN <expression>' statement;

ISSUED BY: PARTCALL (XFFCL)

PC02 PART \$ DOES NOT EXIST, YOU CANNOT CALL IT.

CAUSE: An attempt was made to call a part which does not exist.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: Either of the following two options may be used:

'RECOVER'

which assumes that the missing part has been entered in the meantime, or

'RECOVER <value>'

which causes the value specified to be used as a new part number, and an attempt is made to call that part.

ISSUED BY: PARTCALL (FINIPART)

!!! PC50 UNKNOWN PAR IN 'RETURN' INSTR.

CAUSE: The parameter portion of a 'RETURN' instruction, indicating whether or not a value is to be returned, is invalid.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: RETURN (XFETURN)

!!! PC99 NON-STEP RETURNED TO 'DECLAB' BY 'GIMME'.

CAUSE: The internal service routine 'GIMME' has returned a pointer to something other than a steptable entry.

SYSTEM ACTION: The standard major error action is taken.

RECOVER OPTIONS: None.

ISSUED BY: LABELS (DECLAB)

!!! PI01 (CF) SYSTEM ERROR---PRCGFAM INTERRUPT TERMINATED EXECUTION
!!! PI02 (FC) SYSTEM ERROR---PRCGFAM INTERRUPT TERMINATED EXECUTION
!!! PI03 (EX) SYSTEM ERROR---PRCGFAM INTERRUPT TERMINATED EXECUTION
!!! PI04 (PR) SYSTEM ERROR---PRCGFAM INTERRUPT TERMINATED EXECUTION
!!! PI05 (AD) SYSTEM ERROR---PRCGFAM INTERRUPT TERMINATED EXECUTION
!!! PI06 (SP) SYSTEM ERROR---PRCGFAM INTERRUPT TERMINATED EXECUTION

CAUSE: One of the following serious program interrupts terminated execution:

Operation (OP)---an invalid opcode was encountered

Privileged operation (FC)---an operation not permissible in the problem state has been executed.

Execute (EX)---the subject of an Execute instruction was another Execute instruction.

Protection (PR)---ICC has attempted to access protected virtual memory.

Addressing (AD)---An invalid address was generated while accessing a data item.

Specification (SP)---An incorrect address was generated which caused a data item to be accessed incorrectly.

SYSTEM ACTION: A 'DELETE ALL' is performed. All data except that in the automatic relcad file is lost.

RECOVER OPTIONS: None.

ISSUED BY: INTERRUPT (INIER)

!!! PI07 (DA) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI08 (FC) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI09 (FI) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI0A (DC) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI0B (DI) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI0C (EC) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI0D (EO) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI0E (SG) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION
!!! PI0F (DV) SYSTEM ERROR---PRCGFAM INTEFRUPT TERMINATED EXECUTION

CAUSE: One of the following minor program interrupts has terminated execution:

Data (DA)---a data interrupt occurred during a conversion operation when invalid hex characters were encountered.

Fixed-point overflow (FO)---the result of a fixed-point add or subtract caused an interrupt.

Fixed-point divide (FD)---an attempt was made to divide by zero.

Decimal overflow (DC)---a packed decimal word was too small for the result calculated.

Decimal divide (DD)---a packed decimal divide failed.

Exponent overflow (EO)---the result of an ICC computation produced a number so large the registers could not contain it.

SYSTEM ACTION: A 'DELETE ALL' is performed. All data except that in the automatic reload file is lost.

RECOVER OPTIONS: None.

ISSUED BY: INTERRUPT (INTER)

NOTES: These interrupts are supposed to be ignored. If any one of these messages is issued, it indicates a malfunction in the interrupt handler. Please bring it to the attention of the ICC group as soon as possible !!!

!!! PI11 HARDWARE ERROR DETECTED. PROCEED WITH CAUTION.

CAUSE: A virtual machine-check error has occurred.

SYSTEM ACTION: Processing continues.

RECOVER OPTIONS: Not applicable.

ISSUED BY: INTERRUPT (INTER)

!!! PI12 ATTEMPT TO ENTER INTERRUPT HANDLER RECURSIVELY.

CAUSE: While performing the 'DELETE ALL' after a program interrupt has occurred, another program interrupt was detected.

SYSTEM ACTION: For class 'U' users, all processing stops and control is returned directly to TSS. LCC has not been unloaded, and an attempt to call it again may cause further problems. In any case, LCC control of ATTENTION and program interrupts is lost. For class 'C' users, the task is ABENDED and LCC is logged back on.

RECOVER OPTIONS: None at all.

ISSUED BY: INTERRUPT (INTER)

NOTES: Class 'U' users may re-enter ICC by the following sequence of TSS commands

UNLOAD ICCQ

UNLOAD LCC

ICC

ELG1 PART/STEP GROUP: ($\$ > \$$) ICW>HI.

CAUSE: The user has requested a range of steps or parts in an ALTER, DISPLAY, SAVE, STEP, or DELETE statement, and has specified a lower limit greater than the upper limit.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: PEL (XPEL)

ELG2 PART/STEP GROUP: ($\$$) < 1.

CAUSE: The integer part of a part/step group specification is less than 1. The integer part of the specification may only be less than 1 when specifying the upper bound of a step-group, e.g.,

 STEPS 3.1 TO .5;
is correct, but

 STEPS .1 TO 3.5;
is not correct.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: PEL (XPEL)

PRO1 FILE \$ DOES NOT EXIST AND CANNOT BE PRINTED.

CAUSE: You have requested that a non-existent file be printed.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: Either of the two following RECOVER options may be used:

'RECOVER <filename>'

or

'USE <filename>; RECOVER;'

The result will cause the specified <filename> to be used instead of the incorrect one.

ISSUED BY: NPR (XPFIN)

!!! PRO2 PRINT TASK ON FILE \$ FAILED TO START, RC=\$.

CAUSE: The portion of the operating system which creates a print task was unable to start such a print task. The reason is given by the RC=. This is a minor system error.

SYSTEM ACTION: The request is ignored; processing continues.

RECOVER OPTIONS: Not applicable.

NOTES: This is a minor LCC or ISS error. Please bring it to the attention of the ICC group.

ISSUED BY: NPR (XPFIN)

PRO3 FILE \$ IS ON ACTIVE LOAD LIST, CANNOT BE PRINTED.

CAUSE: The file named for printing is currently on the active load list, i.e., its loading has not completed. Since a file cannot be used for two things at once, i.e., loading and printing, the print cannot be started.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: NPR (XPFIN)

QQ01 I CAN'T HANDLE SUCH A LONG STRING YET.

CAUSE: The string specified as the prompting string on a question-mark operator is longer than 256 characters.

SYSTEM ACTION: The prompting string is ignored. Processing continues using the default prompting string.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QUESTION (XQSTN)

QS01 INPUT LINE TOO LONG; RE-ENTER.

CAUSE: The number of characters entered for an input request (question mark operator) is greater than 130.

SYSTEM ACTION: The line is rejected. The user is re-prompted for the line.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QUESTION (XQSTN)

QU01 ** OF VARIABLES NOT YET IMPLEMENTED.

CAUSE: The user has used the double-quote operator (") on other than a part/step group. This is not currently supported.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: DOUBLE (XRTEBI)

RC01 RECOVER HAS NO MEANING HERE; IGNORED.

CAUSE: The user has issued a "RECOVER" statement, but the current user state was not reached from an error.

SYSTEM ACTION: The request is ignored.

RECOVER OPTIONS: Not applicable.

ISSUED BY: QRCVM (XRECV)

RE01 NO PLACE TO RETURN

CAUSE: A 'RETURN' statement has been issued in the highest user level. There is no place to return control.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: RETURN (XRETURN)

RF01 REFERENCE VARIABLE NON-EXISTENT.

CAUSE: While evaluating a reference chain, it is discovered that the variable referred to by the next higher one in the chain does not exist.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVAL)

SC01 STEP \$ FAILED TO RETURN A VALUE

CAUSE: The specified step or step-group was used in an expression, and control did not terminate with a 'RETURN <value>' statement.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The statement

'RECOVER <value>;'

will cause the specified value to be used as the value of the step or step-group.

ISSUED BY: STEPCALL (XFSCL)

SC02 STEP \$ DOES NOT EXIST, YOU MAY NOT CALL IT.

SC03 STEP \$ DOES NOT EXIST, YOU MAY NOT USE IT TO CALL A RANGE OF STEPS.

CAUSE: The specified step does not exist, and cannot be called or used as the lower bound in a step-group call.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: STEPCALL (SCSTP)

SC04 STEPS \$ TO \$ RANGE CROSSES PART BOUNDARY.

CAUSE: The specified range of steps is not within the same part.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: STEPCALL (SCSTP)

!!! SE00 INVALID CHARACTER IN STRING---SEE STRING2.IDCB

CAUSE: A character not in the LCC character set has been encountered while processing a string.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: STRING2 (SSTR2)

!!! SE01 INVALID CHARACTER IN STRING---SEE STRING2.EDCB

CAUSE: A character not in the ICC character set has been encountered while processing a string.

SYSTEM ACTION: Standard system-error recovery.

RECOVER OPTIONS: None.

ISSUED BY: STRING2 (SSTR2)

ST01 ATTEMPT TO STORE INTO ARRAY OR PROC VARIABLE.

CAUSE: The variable on the left-hand side of an assignment operator is either an array descriptor or a procedure descriptor.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVAL)

NOTES: If the user really wants the assignment to take place, the DELETE statement can be used to make the variable of type "undefined" and the operation can be retried.

ST02 CIRCULAR REF DEFINITION.

CAUSE: While attempting to evaluate a reference variable, a circular definition has been encountered. This would result in an infinite loop. An example of a circular ref definition would be:

A ← ;

B ← <A>;

such definitions are not detectable until one of the variables in the circle is accessed and evaluated.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVAL)

SX01 SYNTAX ERROR TERMINATED EXECUTION.

CAUSE: A statement which failed to translate properly has been encountered during execution.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QIJMP (XICEF)

UN01 \$ UNDEFINED.

CAUSE: The variable indicated has been accessed without having been stored into previously, or its value has been deleted either explicitly (by DELETE) or implicitly (by NEW at the same dynamic level).

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: The user can store a value into the variable by use of an assignment statement, and then issue a "RECOVER" statement. The indicated variable will then be re-accessed.

ISSUED BY: QXLCM (EVALUATE)

XQ02 VARIABLE \$ USED WITH TOO FEW SUBSCRIPTS.

CAUSE: The user has specified fewer dimensions on a variable than he specified in his "ARRAY" declaration.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVALUATE)

XQ95 VARIABLE \$ IS OF UNKNOWN TYPE.

CAUSE: The data type of the variable specified is not of the known data types.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVAL)

!!! XQ96 INCARNATION-VALUE STACK OF VARIABLE \$ IS DAMAGED.

CAUSE: In searching through the incarnation-value stack of the specified variable, a zero link was encountered where one should not be found.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVALUATE)

!!! XQ97 THE TYPE OF VARIABLE \$ IS UNKNOWN.

CAUSE: The VRTYP field (indicating what type the variable is) is not of a known type.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (EVALUATE)

!!! XQ98 ILLEGAL OPERATION FIELD IN A COMMAND.

CAUSE: An interpretive code instruction has an operation code whose value is greater than the upper limit of the operation table.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (ICEXEC)

NOTES: This represents a translator error. Please bring it to the attention of the ICC group.

!!! XQ99 ILLEGAL BASIC INSTRUCTION FIELD IN INTERPRETIVE CODE.

CAUSE: During the fetch cycle of the interpreter, the ICBIFF field of the operation was found to be of an unknown type.

SYSTEM ACTION: The user is given control.

RECOVER OPTIONS: None.

ISSUED BY: QXLCM (ICEXEC)